

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 3

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN		5. MINERAL LEASE NO: ML-47974	6. SURFACE: TRIBAL
B. TYPE OF WELL <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS OTHER _____ <input checked="" type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE		7. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE TRIBE	
		8. UNIT OF CA AGREEMENT NAME: N/A	
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION, CO.		9. WELL NAME and NUMBER: WF 3D-32-15-19	
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		10. FIELD AND POOL, OR WILDCAT: UNDESIGNATED	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 460' FNL 1948' FWL AT PROPOSED PRODUCING ZONE: SAME		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 32 15S 19E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 55 +/- MILES SOUTH OF OURAY, UTAH		12. COUNTY: UINTAH	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE(FEET) 460 +/-	16. NUMBER OF ACRES IN LEASE: 1920	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)	19. PROPOSED DEPTH 11,950' MD	20. BOND DESCRIPTION: 965003033	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 8135.3' GR	22. APPROXIMATE DATE WORK WILL START: ASAP	23. ESTIMATED DURATION: 30 DAYS	

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PROPOSED CASING AND CEMENTING PROGRAM					
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12 1/4	9 5/8	J-55	36	500'	SEE ATTACHED CEMENT CALCULATIONS
8 3/4	7"	HCP-110	26	5550'	
6 1/8	4 1/2	P-110	13.5	TD	

25 ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OW

NAME (PLEASE PRINT) <u>Jan Nelson</u>	TITLE <u>Regulatory Affairs</u>
SIGNATURE <u><i>Jan Nelson</i></u>	DATE <u>11/17/06</u>

(This space for State use only)

API NUMBER ASSIGNED: 43-047-35877 APPROVAL: _____

**Approved by the
Utah Division of
Oil, Gas and Mining**

RECEIVED
NOV 22 2006

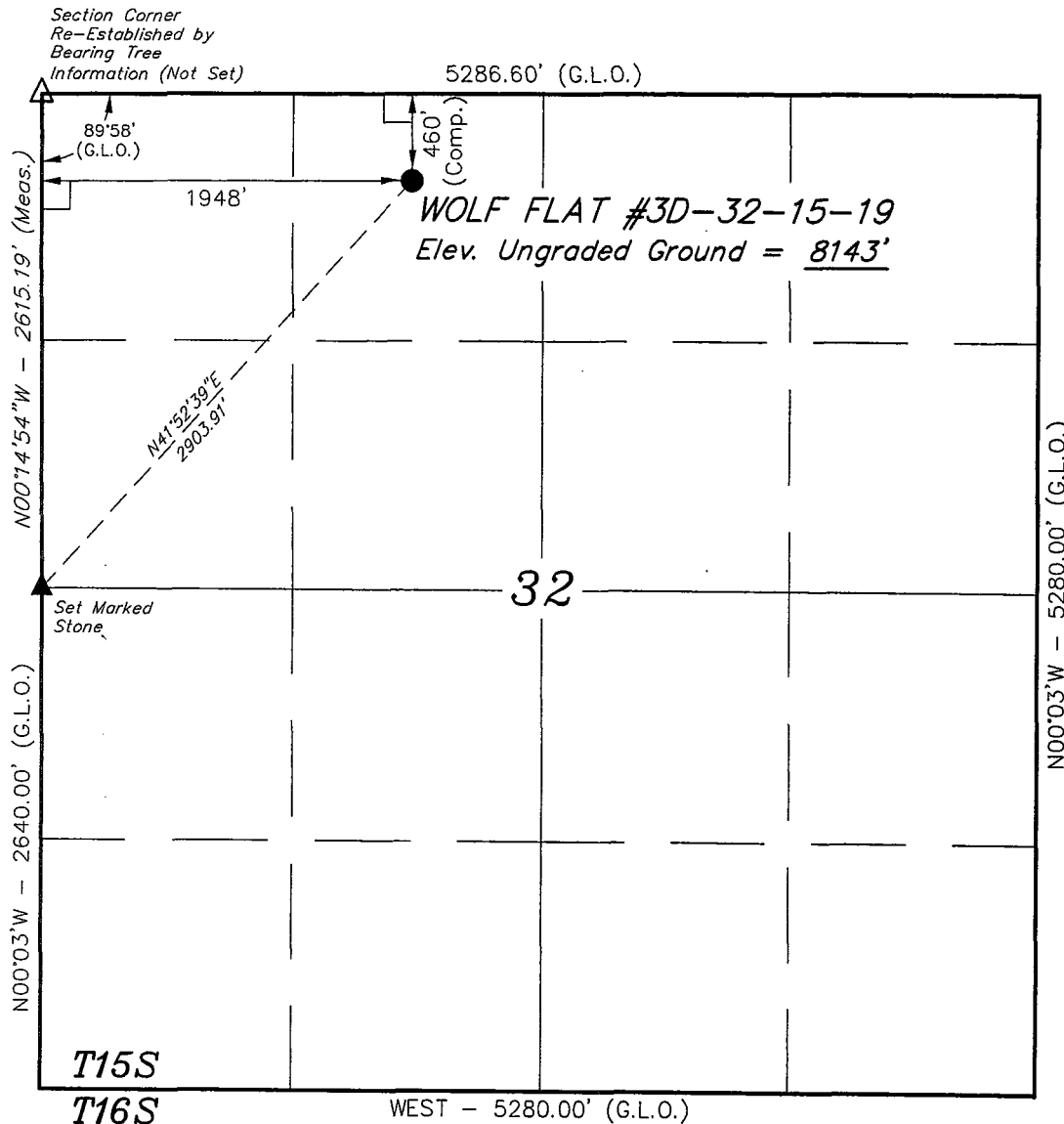
DIV. OF OIL, GAS & MINING

**Federal Approval of this
Action is Necessary**

Date: 12-14-06
By: *[Signature]*

CONFIDENTIAL

T15S, R19E, S.L.B.&M.



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set On Ground)

(AUTONOMOUS NAD 83)
 LATITUDE = 39°28'29.83" (39.474953)
 LONGITUDE = 109°48'57.00" (109.815833)
 (AUTONOMOUS NAD 27)
 LATITUDE = 39°28'29.70" (39.474917)
 LONGITUDE = 109°48'59.50" (109.816528)

QUESTAR EXPLR. & PROD.

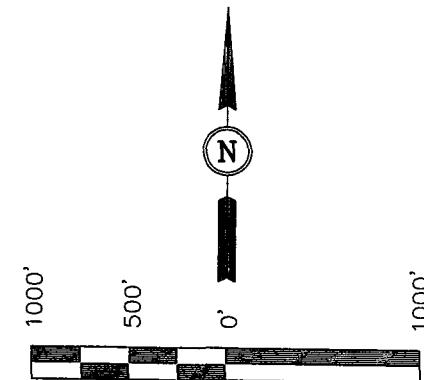
Well location, WOLF FLAT #3D-32-15-19,
 located as shown in the NE 1/4 NW 1/4 of
 Section 32, T15S, R19E, S.L.B.&M., Uintah
 County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT A ROAD INTERSECTION IN THE NW 1/4
 OF SECTION 19, T15S, R19E, S.L.B.&M. TAKEN FROM THE
 WOLF FLAT, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5
 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE
 UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL
 SURVEY. SAID ELEVATION IS MARKED AS BEING 8054 FEET.

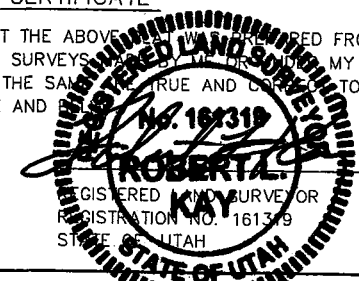
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



**SCALE
 CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE WORK WAS PREPARED FROM
 FIELD NOTES OF ACTUAL SURVEYS AND THAT THE SAME ARE TRUE AND CORRECT TO THE
 BEST OF MY KNOWLEDGE AND



UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-11-06	DATE DRAWN: 10-12-06
PARTY B.H. F.Y. K.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QUESTAR EXPLR. & PROD.	

Additional Operator Remarks

Questar Explor. & Prod., Co. proposes to drill a well to 11950' to test the Mancos. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements

See Onshore Order No. 1 attached

Please be advised that Questar Explor. & Prod., Co. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No.965003033. The principal is Questar Explor. & Prod., Co. via surety as consent as provided for the 43 CFR 3104.2.

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION & PRODUCTION, CO.
WF 3D-32-15-19

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>TVD</u>	<u>MD</u>	<u>Prod. Phase Anticipated</u>
Green River		Surface	
Wasatch	3750	3750	Gas
Mesaverde	5550	5550	
Sego	7630	7630	
Castlegate	7790	7790	
Blackhawk	8050	8050	
Mancos	8520	8520	
Dakota Silt	11860	11860	Gas
TD	11950	11950	

2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas. Or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Oil/Gas	Mancos	8520'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION & PRODUCTION, CO.
WF 3D-32-15-19

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Willow Creek water right #49-2183 / Permit# T75500.

All waste water resulting from drilling operations will be disposed of at RNI disposal pit located in NWNE Section 5, T9S, R22E.

3. Operator's Specification for Pressure Control Equipment:

- A. 5,000 psi W.P. Double Gate BOP or Single Gate BOP (schematic attached)
- B. Functional test daily
- C. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- D. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 5M system and individual components shall be operable as designed.

4. Casing Program

	<u>Depth</u>	<u>Hole Size</u>	<u>Csg Size</u>	<u>Type</u>	<u>Weight</u>
Surface	500'	12-1/4"	9 5/8"	J-55	36lb/ft (new)
Intermediate	5550'	8 3/4"	7"	HCP-110	26lb/ft (new)
Production	TD	6 1/8"	4 1/2"	P-110	13.5lb/ft(new)

5. Auxiliary Equipment

- A. Kelly Cock – yes
- B. Float at the bit – Yes
- C. Monitoring equipment on the mud system – visually
- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – yes
If drilling with air the following will be used:

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION & PRODUCTION, CO.
WF 3D-32-15-19

- F. The blooie line shall be at least 6" in diameter and extend at least 100' from the well bore into the reserve/blooie pit.
- G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500').
- H. Compressor shall be tied directly to the blooie line through a manifold.
- I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

6. Surface hole and intermediate hole will be drilled with air, air/mist, foam, aerated water or mud depending on hole conditions. Drilling below intermediate casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is 9.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

6. Testing, logging and coring program

- A. Cores – none anticipated
- B. DST – none anticipated

Logging – Mud logging – 500 to TD
GR-SP-Induction
Neutron Density

- C. Formation and Completion Interval: Pre-Cambrian interval, final determination of completion will be made by analysis of logs.
Stimulation – Stimulation will be designed for the particular area of interest as encountered.

ONSHORE OIL & GAS ORDER NO. 1
QUESTAR EXPLORATION & PRODUCTION, CO.
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7. Cementing Program

See attached Cementing Recommendation.

*Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 6100 psi. Maximum anticipated bottom hole temperature is 140° F.

9. Surface Owner

The well pad and access road are located on lands owned by the Ute Tribe.

5M BOP STACK

11" Rotating Head

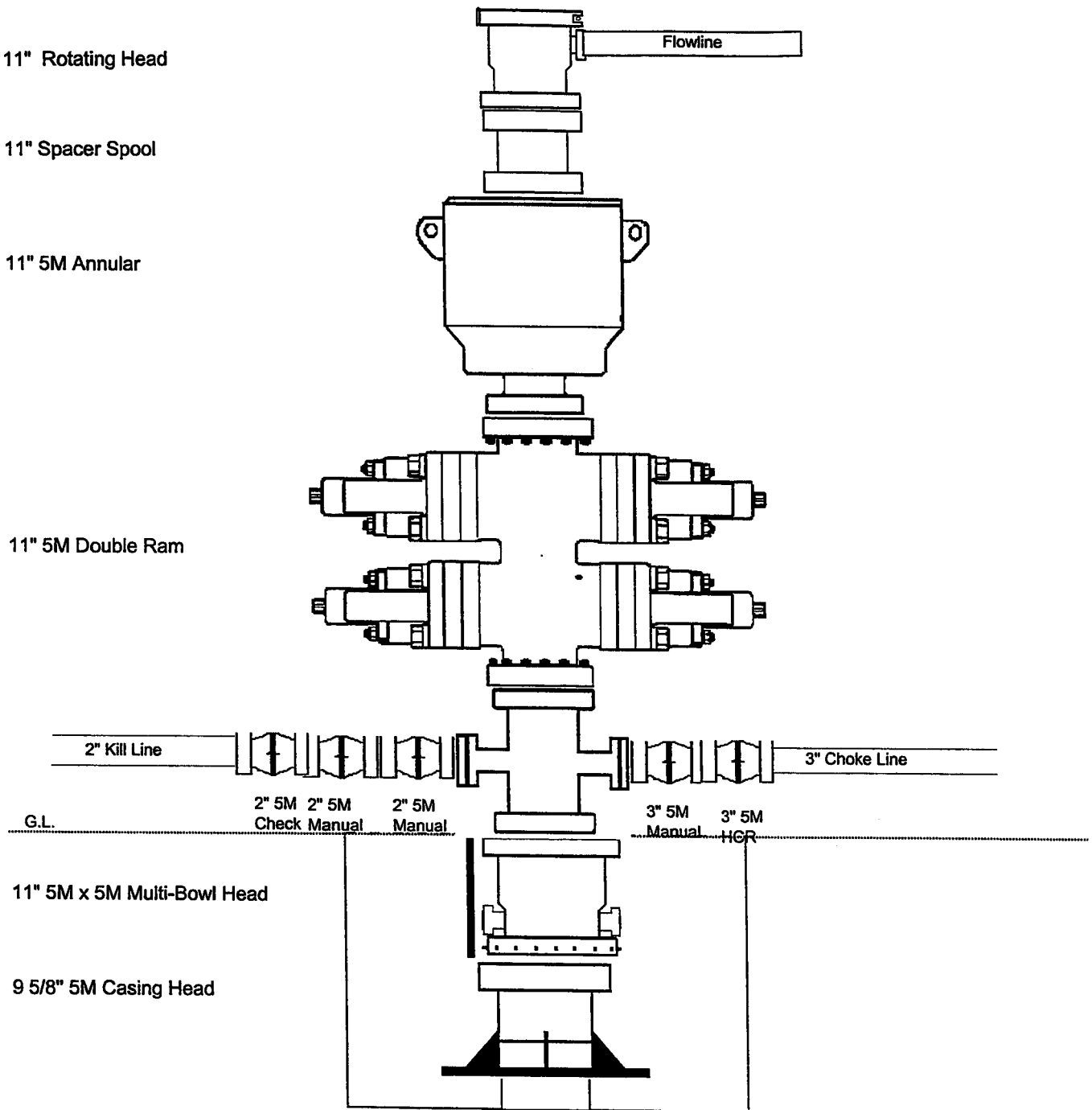
11" Spacer Spool

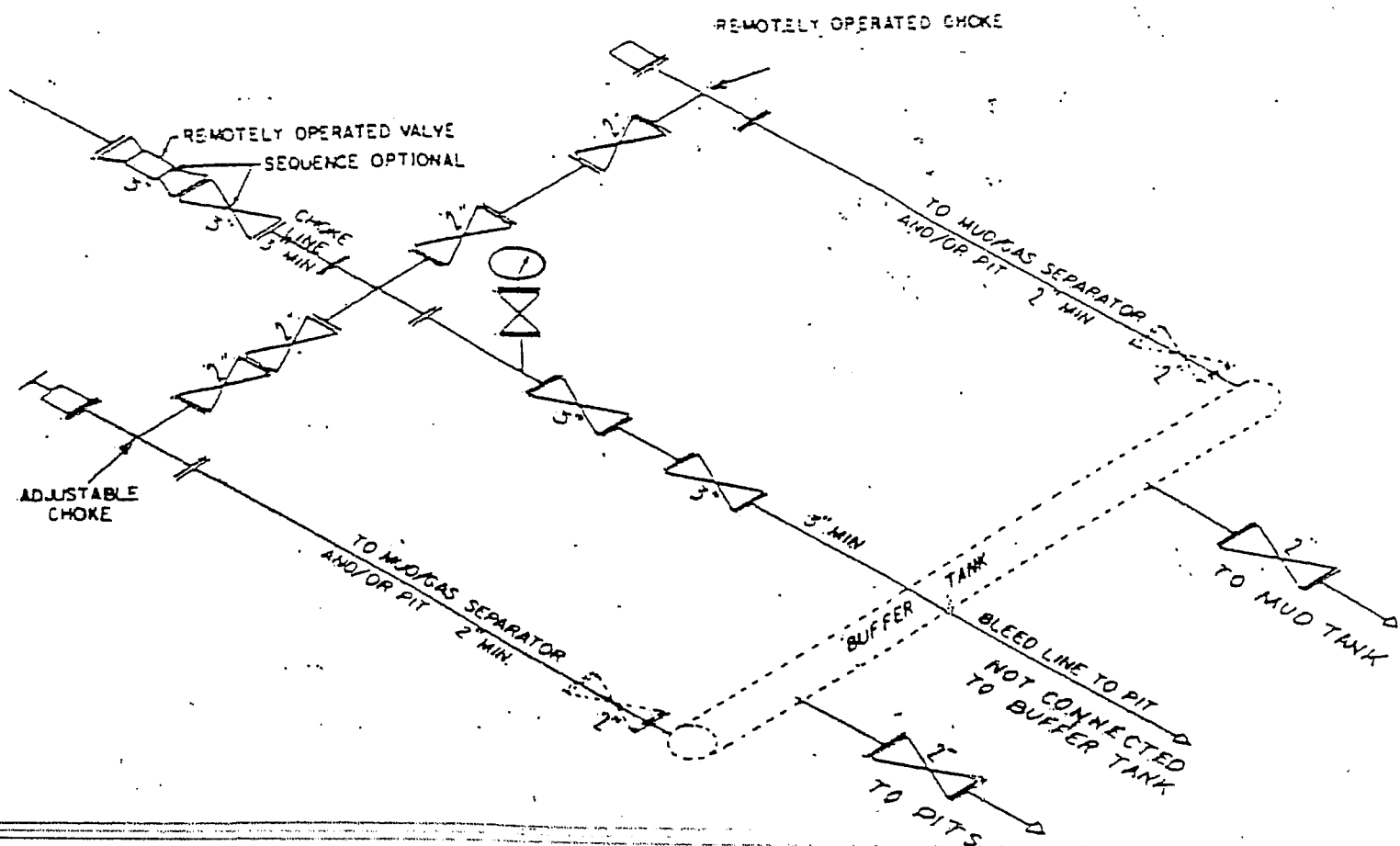
11" 5M Annular

11" 5M Double Ram

11" 5M x 5M Multi-Bowl Head

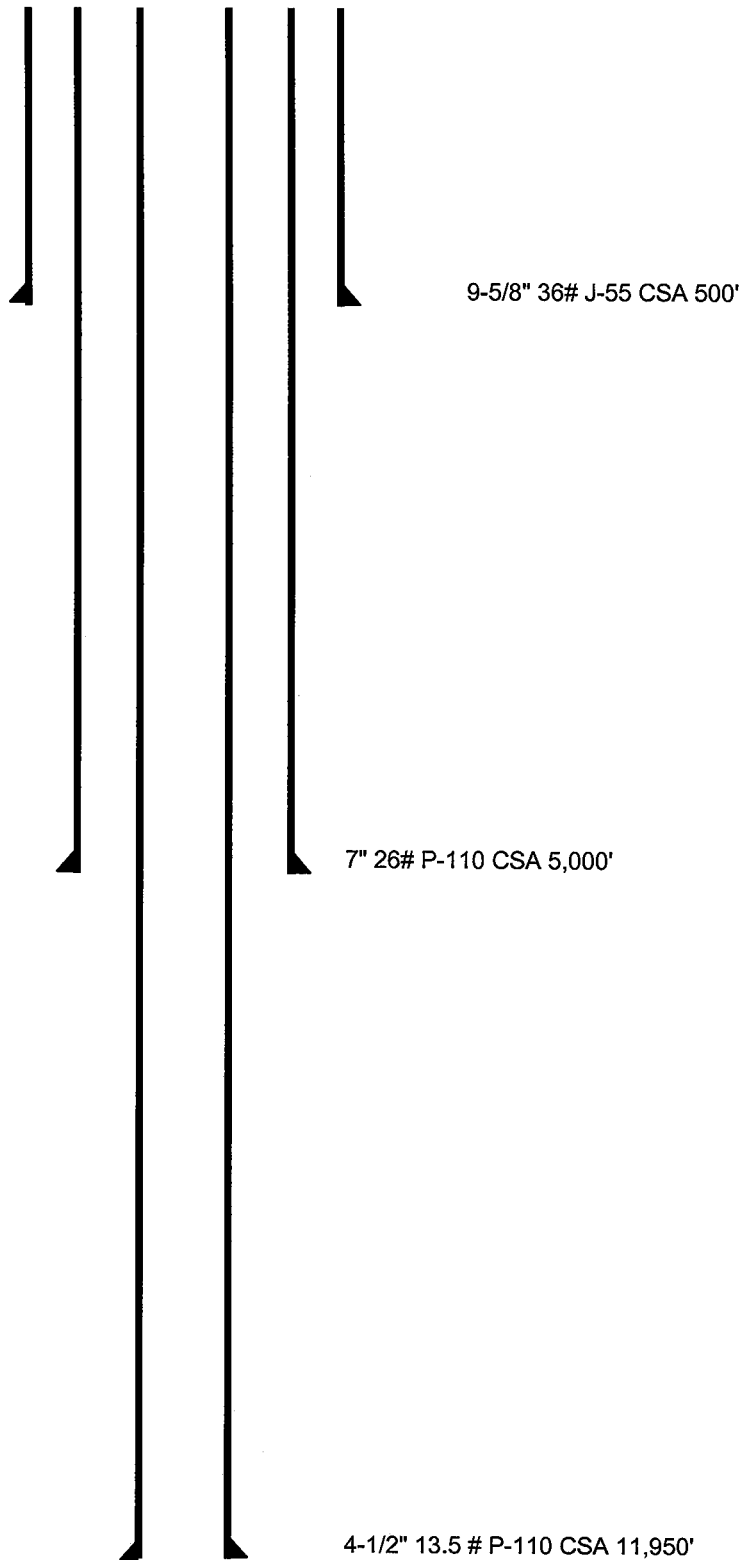
9 5/8" 5M Casing Head





② 5M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION OF CHOKES MAY VARY

WF 3D-32-15-19
Sec 32-T15S- R19E



HALLIBURTON

Questar Exploration And Production, Co.
1050 17th St. Suite 500
Denver, Colorado 80265

WF 3D-32-15-19
Flat Rock Field
Uintah County, Utah
United States of America

Multiple String Cement Recommendation

Prepared for: Mr. Jim Davidson
November 20, 2006
Version: 2

Submitted by:
Aaron James
Halliburton Energy Services
Denver 410 17th Co Us
410 Seventeenth St
Denver, Colorado 80202
303.899.4700

HALLIBURTON

***Halliburton appreciates the opportunity to present
this proposal and looks forward to being of service to you.***

Foreword

Enclosed is our recommended procedure for cementing the casing strings in the referenced well. The information in this proposal includes well data, calculations, materials requirements, and cost estimates. This proposal is based on information from our field personnel and previous cementing services in the area.

Halliburton Energy Services recognizes the importance of meeting society's needs for health, safety, and protection of the environment. It is our intention to proactively work with employees, customers, the public, governments, and others to use natural resources in an environmentally sound manner while protecting the health, safety, and environmental processes while supplying high quality products and services to our customers.

We appreciate the opportunity to present this proposal for your consideration and we look forward to being of service to you. Our Services for your well will be coordinated through the Service Center listed below. If you require any additional information or additional designs, please feel free to contact myself or our field representative listed below.

Prepared by: _____
Ginette Ishida
Procedure Analyst

Submitted by: _____
Aaron James
Technical Advisor

SERVICE CENTER:	Vernal, UT
SERVICE COORDINATOR:	Willis Lefevre
FIELD SERVICE QUALITY COORDINATOR:	Lex Cook
SENIOR TECHNICAL PROFESSIONAL:	Richard Curtice
TECHNICAL PROFESSIONALS-FIELD:	Kyle Scott
FIELD REPRESENTATIVE:	Robert Kruger
PHONE NUMBER:	1-435-789-2550

Cementing Best Practices

1. **Cement quality and weight:** You must choose a cement slurry that is designed to solve the problems specific to each casing string.
2. **Waiting time:** You must hold the cement slurry in place and under pressure until it reaches its' initial set without disturbing it. A cement slurry is a time-dependent liquid and must be allowed to undergo a hydration reaction to produce a competent cement sheath. A fresh cement slurry can be worked (thickening or pump time) as long as it is in a plastic state and before going through its' transition phase. If the cement slurry is not allowed to transition without being disturbed, it may be subjected to changes in density, dilution, settling, water separation, and gas cutting that may lead to a lack of zonal isolation and possible bridging in the annulus.
3. **Pipe movement:** Pipe movement may be one of the single most influential factors in mud removal. Reciprocation and/or rotation mechanically breaks up gelled mud and changes the flow patterns in the annulus to improve displacement efficiency.
4. **Mud properties (for cementing):**
Rheology:
Plastic Viscosity (PV) < 15 centipoise (cp)
Yield Point (YP) < 10 lb/100 ft²
These properties should be reviewed with the Mud Engineer, Drilling Engineer, and Company Representative(s) to ensure no hole problems are created.
Gel Strength:
The 10-second/10-minute gel strength values should be such that the 10-second and 10-minute readings are close together or flat (i.e., 5/6). The 30-minute reading should be less than 20 lb/100 ft². Sufficient shear stress may not be achieved on a primary cement job to remove mud left in the hole if the mud were to develop more than 25 lb/100 ft² of gel strength.
Fluid Loss:
Decreasing the filtrate loss into a permeable zone enhances the creation of a thin, competent filter cake. A thin, competent filter cake created by a low fluid loss mud system is desirable over a thick, partially gelled filter cake. A mud system created with a low fluid loss will be more easily displaced. The fluid loss value should be < 15 cc's (ideal would be 5 cc's).
5. **Circulation:** Prior to cementing circulate full hole volume twice, or until well conditioned mud is being returned to the surface. There should be no cutting in the mud returns. An annular velocity of 260 feet per minute is optimum (SPE/IADC 18617), if possible.
6. **Flow rate:** Turbulent flow is the most desirable flow regime for mud removal. If turbulence cannot be achieved pump at as high a flow rate that can practically and safely be used to create the maximum flow energy. The highest mud removal is achieved when the maximum flow energy is obtained.
7. **Pipe Centralization:** The Cement will take the path of least resistance, therefore proper centralization is important to help prevent the casing from contacting the borehole wall. A minimum standoff of 70% should be targeted for optimum displacement efficiency.
8. **Rat hole:** A weighted viscous pill placed in the rat hole prior to cementing will minimize the risk of higher density cement mixing with lower density mud when the well is static.
9. **Top and Bottom plugs:** A top and bottom plug are recommended to be run on all primary casing jobs. The bottom plug should be run after the spacer and ahead of the first cement slurry.
10. **Spacers and flushes:** Spacers and/or flushes should be used to prevent contamination between the cement slurry and the drilling fluid. They are also used to clean the wellbore and aid with bonding. To determine the volume, either a minimum of 10 minutes contact time or 1000 ft. of annular fill, whichever is greater, is recommended.

Job Information

Cement Surface Casing

WF 3D-32-15-19

12 1/4" Open Hole Section	0 - 500 ft (MD)
	0 - 500 ft (TVD)
Inner Diameter	12.250 in
Job Excess	100 %
9 5/8" Surface Casing	0 - 500 ft (MD)
	0 - 500 ft (TVD)
Outer Diameter	9.625 in
Inner Diameter	8.921 in
Linear Weight	36 lbm/ft
Casing Grade	J-55
Job Excess	0 %
Mud Type	Water Based Mud

Calculations**Cement Surface Casing**

Spacer:

$$\begin{aligned}\text{Total Spacer} &= 112.29 \text{ ft}^3 \\ &= 20.00 \text{ bbl}\end{aligned}$$

Cement : (500.00 ft fill)

$$\begin{aligned}500.00 \text{ ft} * 0.3132 \text{ ft}^3/\text{ft} * 100 \% &= 313.19 \text{ ft}^3 \\ \text{Primary Cement} &= 313.19 \text{ ft}^3 \\ &= 55.78 \text{ bbl}\end{aligned}$$

Shoe Joint Volume: (42.00 ft fill)

$$\begin{aligned}42.00 \text{ ft} * 0.4341 \text{ ft}^3/\text{ft} &= 18.23 \text{ ft}^3 \\ &= 3.25 \text{ bbl} \\ \text{Tail plus shoe joint} &= 331.42 \text{ ft}^3 \\ &= 59.03 \text{ bbl} \\ \text{Total Tail} &= 184 \text{ sks}\end{aligned}$$

Total Pipe Capacity:

$$\begin{aligned}500.00 \text{ ft} * 0.4341 \text{ ft}^3/\text{ft} &= 217.03 \text{ ft}^3 \\ &= 38.65 \text{ bbl}\end{aligned}$$

Displacement Volume to Shoe Joint:

$$\begin{aligned}\text{Capacity of Pipe - Shoe Joint} &= 38.65 \text{ bbl} - 3.25 \text{ bbl} \\ &= 35.41 \text{ bbl}\end{aligned}$$

Job Recommendation

Cement Surface Casing

Fluid Instructions

Fluid 1: Water Based Spacer

Gel Water

Fluid Density: 8.34 lbm/gal

Fluid Volume: 20 bbl

Fluid 2: Primary Cement

Rockies LT

0.125 lbm/sk Poly-E-Flake (Cement Material)

0.25 lbm/sk Kwik Seal (Cement Material)

Fluid Weight 13.50 lbm/gal

Slurry Yield: 1.80 ft³/sk

Total Mixing Fluid: 9.33 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 500 ft

Volume: 59.03 bbl

Calculated Sacks: 184.12 sks

Proposed Sacks: 190 sks

Fluid 3: Water Spacer

Water Displacement

Fluid Density: 8.34 lbm/gal

Fluid Volume: 69.68 bbl

Fluid 4: Top Out Cement

Premium Cement

94 lbm/sk Premium Cement (Cement)

2 % Calcium Chloride (Accelerator)

Fluid Weight 15.60 lbm/gal

Slurry Yield: 1.20 ft³/sk

Total Mixing Fluid: 5.26 Gal/sk

Proposed Sacks: 100 sks

Job Procedure**Cement Surface Casing****Detailed Pumping Schedule**

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	Spacer	Gel Water	8.3	5.0	20 bbl
2	Cement	Rockies LT Cement	13.5	5.0	190 sks
3	Spacer	Water Displacement	8.3	5.0	69.68 bbl
4	Cement	Top Out Cement	15.6	1.5	100 sks

Job Information**Cement Intermediate Casing**

WF 3D-32-15-19

9 5/8" Surface Casing	0 - 500 ft (MD)
	0 - 500 ft (TVD)
Outer Diameter	9.625 in
Inner Diameter	8.921 in
Linear Weight	36 lbm/ft
Casing Grade	J-55
Job Excess	0 %
8 3/4" Open Hole Section	500 - 5550 ft (MD)
Inner Diameter	8.750 in
Job Excess	35 %
7" Intermediate Casing	0 - 5550 ft (MD)
Outer Diameter	7.000 in
Inner Diameter	6.276 in
Linear Weight	26 lbm/ft
Casing Grade	HCP110
Job Excess	0 %
Mud Type	Aerated
Mud Weight	6 lbm/gal
BHCT	95 degF

Calculations**Cement Intermediate Casing**

Spacer:

$$\begin{aligned}\text{Total Spacer} &= 56.15 \text{ ft}^3 \\ &= 10.00 \text{ bbl}\end{aligned}$$

Spacer:

$$\begin{aligned}\text{Total Spacer} &= 112.29 \text{ ft}^3 \\ &= 20.00 \text{ bbl}\end{aligned}$$

Spacer:

$$\begin{aligned}\text{Total Spacer} &= 56.15 \text{ ft}^3 \\ &= 10.00 \text{ bbl}\end{aligned}$$

Cement : (5050.00 ft fill)

$$\begin{aligned}500.00 \text{ ft} * 0.1668 \text{ ft}^3/\text{ft} * 0 \% &= 83.41 \text{ ft}^3 \\ 4550.00 \text{ ft} * 0.1503 \text{ ft}^3/\text{ft} * 35 \% &= 923.40 \text{ ft}^3 \\ \text{Total Foamed Lead Cement} &= 1006.81 \text{ ft}^3 \\ &= 179.32 \text{ bbl} \\ \text{Sacks of Cement} &= 514 \text{ sks}\end{aligned}$$

Cement : (500.00 ft fill)

$$\begin{aligned}500.00 \text{ ft} * 0.1503 \text{ ft}^3/\text{ft} * 35 \% &= 101.47 \text{ ft}^3 \\ \text{Tail Cement} &= 101.47 \text{ ft}^3 \\ &= 18.07 \text{ bbl}\end{aligned}$$

Shoe Joint Volume: (42.00 ft fill)

$$\begin{aligned}42.00 \text{ ft} * 0.2148 \text{ ft}^3/\text{ft} &= 9.02 \text{ ft}^3 \\ &= 1.61 \text{ bbl} \\ \text{Tail plus shoe joint} &= 110.50 \text{ ft}^3 \\ &= 19.68 \text{ bbl} \\ \text{Total Tail} &= 75 \text{ sks}\end{aligned}$$

Total Pipe Capacity:

$$\begin{aligned}5550.00 \text{ ft} * 0.2148 \text{ ft}^3/\text{ft} &= 1192.30 \text{ ft}^3 \\ &= 212.36 \text{ bbl}\end{aligned}$$

Displacement Volume to Shoe Joint:

$$\begin{aligned}\text{Capacity of Pipe - Shoe Joint} &= 212.36 \text{ bbl} - 1.61 \text{ bbl} \\ &= 210.75 \text{ bbl}\end{aligned}$$

Job Recommendation**Cement Intermediate Casing****Fluid Instructions**

Fluid 1: Water Spacer

Fresh Water Ahead

Fluid Density: 8.34 lbm/gal

Fluid Volume: 10 bbl

Fluid 2: Reactive Spacer

Super Flush

Fluid Density: 9.20 lbm/gal

Fluid Volume: 20 bbl

Fluid 3: Water Spacer

Fresh Water Behind

Fluid Density: 8.34 lbm/gal

Fluid Volume: 10 bbl

Fluid 4: Foamed Lead Cement

50/50 Poz Premium

0.1 % FDP-C766-05 (Low Fluid Loss Control)

5 lbm/sk Silicalite Compacted (Light Weight Additive)

20 % SSA-1 (Cement Material)

0.1 % Versaset (Thixotropic Additive)

1.5 % Zonesealant 2000 (Foamer)

Foamed Fluid Weight 11.00 lbm/gal

Fluid Weight 14.30 lbm/gal

Slurry Yield: 1.47 ft³/sk

Total Mixing Fluid: 6.41 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 5050 ft

Volume: 179.32 bbl

Calculated Sacks: 513.67 sks

Proposed Sacks: 520 sks

Fluid 5: Tail Cement

50/50 Poz Premium

0.1 % FDP-C766-05 (Low Fluid Loss Control)

5 lbm/sk Silicalite Compacted (Light Weight Additive)

20 % SSA-1 (Cement Material)

0.1 % Versaset (Thixotropic Additive)

Fluid Weight 14.30 lbm/gal

Slurry Yield: 1.47 ft³/sk

Total Mixing Fluid: 6.41 Gal/sk

Top of Fluid: 5050 ft

Calculated Fill: 500 ft

Volume: 19.68 bbl

Calculated Sacks: 75.17 sks

Proposed Sacks: 80 sks

Fluid 6: Water Spacer

Displacement

Fluid Density: 8.34 lbm/gal

Fluid Volume: 340.78 bbl

Fluid 7: Top Out Cement

Premium Cement

94 lbm/sk Premium Cement (Cement)

12 % Cal-Seal 60 (Accelerator)

3 % Calcium Chloride (Accelerator)

Fluid Weight 14.60 lbm/gal

Slurry Yield: 1.55 ft³/sk

Total Mixing Fluid: 7.35 Gal/sk

Proposed Sacks: 75 sks

Job Procedure**Cement Intermediate Casing****Detailed Pumping Schedule**

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	Spacer	Fresh Water Ahead	8.3	5.0	10 bbl
2	Spacer	Super Flush	9.2	5.0	20 bbl
3	Spacer	Fresh Water Behind	8.3	5.0	10 bbl
4	Cement	Foamed Lead	14.3	5.0	520 sks
5	Cement	Unfoamed Tail	14.3	5.0	80 sks
6	Spacer	Displacement	8.3	7.0	340.78 bbl
7	Cement	12/3/ Thixo	14.6	1.5	75 sks

Foam Output Parameter Summary:

Fluid #	Fluid Name	Unfoamed Liquid Volume	Beginning Density lbm/gal	Ending Density lbm/gal	Beginning Rate scf/bbl	Ending Rate scf/bbl
Stage 1						
4	Foamed Lead	134.49bbl	11.0	11.0	30.2	388.4

Foam Design Specifications:

Foam Calculation Method: Constant Density
Backpressure: 250 psig
Bottom Hole Circulating Temp: 95 degF
Mud Outlet Temperature: 80 degF

Calculated Gas = 28139.9 scf
Additional Gas = 40000 scf
Total Gas = 68139.9 scf

Job Information**Cement Production Casing**

WF 3D-32-15-19

7" Intermediate Casing	0 - 5550 ft (MD)
Outer Diameter	7.000 in
Inner Diameter	6.276 in
Linear Weight	26 lbm/ft
Casing Grade	HCP110
Job Excess	0 %
6 1/8" Open Hole Section	5550 - 11950 ft (MD)
Inner Diameter	6.125 in
Job Excess	35 %
4 1/2" Production Casing	0 - 11950 ft (MD)
Outer Diameter	4.500 in
Inner Diameter	3.920 in
Linear Weight	13.50 lbm/ft
Casing Grade	P-110
Job Excess	0 %
Mud Type	Water Based Mud
Mud Weight	9.20 lbm/gal
BHST	230 degF
BHCT	180 degF

Calculations**Cement Production Casing**

Spacer:

$$\begin{aligned} 538.00 \text{ ft} * 0.1044 \text{ ft}^3/\text{ft} * 0 \% &= 56.16 \text{ ft}^3 \\ \text{Total Spacer} &= 56.15 \text{ ft}^3 \\ &= 10.00 \text{ bbl} \end{aligned}$$

Spacer:

$$\begin{aligned} 1076.00 \text{ ft} * 0.1044 \text{ ft}^3/\text{ft} * 0 \% &= 112.32 \text{ ft}^3 \\ \text{Total Spacer} &= 112.29 \text{ ft}^3 \\ &= 20.00 \text{ bbl} \end{aligned}$$

Spacer:

$$\begin{aligned} 538.00 \text{ ft} * 0.1044 \text{ ft}^3/\text{ft} * 0 \% &= 56.16 \text{ ft}^3 \\ \text{Total Spacer} &= 56.15 \text{ ft}^3 \\ &= 10.00 \text{ bbl} \end{aligned}$$

Cement : (6450.00 ft fill)

$$\begin{aligned} 550.00 \text{ ft} * 0.1044 \text{ ft}^3/\text{ft} * 0 \% &= 57.41 \text{ ft}^3 \\ 5900.00 \text{ ft} * 0.0942 \text{ ft}^3/\text{ft} * 35 \% &= 750.06 \text{ ft}^3 \\ \text{Total Foamed Lead Cement} &= 807.47 \text{ ft}^3 \\ &= 143.82 \text{ bbl} \\ \text{Sacks of Cement} &= 399 \text{ sks} \end{aligned}$$

Cement : (500.00 ft fill)

$$\begin{aligned} 500.00 \text{ ft} * 0.0942 \text{ ft}^3/\text{ft} * 35 \% &= 63.56 \text{ ft}^3 \\ \text{Tail Cement} &= 63.56 \text{ ft}^3 \\ &= 11.32 \text{ bbl} \end{aligned}$$

Shoe Joint Volume: (42.00 ft fill)

$$\begin{aligned} 42.00 \text{ ft} * 0.0838 \text{ ft}^3/\text{ft} &= 3.52 \text{ ft}^3 \\ &= 0.63 \text{ bbl} \\ \text{Tail plus shoe joint} &= 67.08 \text{ ft}^3 \\ &= 11.95 \text{ bbl} \\ \text{Total Tail} &= 45 \text{ sks} \end{aligned}$$

Total Pipe Capacity:

$$\begin{aligned} 11950.00 \text{ ft} * 0.0838 \text{ ft}^3/\text{ft} &= 1001.54 \text{ ft}^3 \\ &= 178.38 \text{ bbl} \end{aligned}$$

Displacement Volume to Shoe Joint:

$$\begin{aligned} \text{Capacity of Pipe - Shoe Joint} &= 178.38 \text{ bbl} - 0.63 \text{ bbl} \\ &= 177.75 \text{ bbl} \end{aligned}$$

Job Recommendation**Cement Production Casing****Fluid Instructions**

Fluid 1: Water Spacer

Fresh Water Ahead

Fluid Density: 8.34 lbm/gal

Fluid Volume: 10 bbl

Fluid 2: Reactive Spacer

Super Flush

Fluid Density: 9.20 lbm/gal

Fluid Volume: 20 bbl

Fluid 3: Water Spacer

Fresh Water Behind

Fluid Density: 8.34 lbm/gal

Fluid Volume: 10 bbl

Fluid 4: Foamed Lead Cement

50/50 Poz Premium

0.3 % FDP-C766-05 (Low Fluid Loss Control)

5 lbm/sk Silicalite Compacted (Light Weight Additive)

20 % SSA-1 (Cement Material)

0.2 % Versaset (Thixotropic Additive)

1.5 % Zonesealant 2000 (Foamer)

Fluid Weight 14.30 lbm/gal

Slurry Yield: 1.48 ft³/sk

Total Mixing Fluid: 6.44 Gal/sk

Top of Fluid: 5000 ft

Calculated Fill: 6450 ft

Volume: 143.82 bbl

Calculated Sacks: 398.78 sks

Proposed Sacks: 400 sks

Fluid 5: Tail Cement

50/50 Poz Premium

0.3 % FDP-C766-05 (Low Fluid Loss Control)

5 lbm/sk Silicalite Compacted (Light Weight Additive)

20 % SSA-1 (Cement Material)

0.2 % Versaset (Thixotropic Additive)

Fluid Weight 14.30 lbm/gal

Slurry Yield: 1.48 ft³/sk

Total Mixing Fluid: 6.44 Gal/sk

Top of Fluid: 11450 ft

Calculated Fill: 500 ft

Volume: 11.95 bbl

Calculated Sacks: 45.48 sks

Proposed Sacks: 50 sks

Fluid 6: Water Spacer

Displacement

Fluid Density: 8.34 lbm/gal

Fluid Volume: 296.06 bbl

Job Procedure**Cement Production Casing****Detailed Pumping Schedule**

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate bbl/min	Downhole Volume
1	Spacer	Fresh Water Ahead	8.3	5.0	10 bbl
2	Spacer	Super Flush	9.2	5.0	20 bbl
3	Spacer	Fresh Water Behind	8.3	5.0	10 bbl
4	Cement	Foamed Lead	14.3	5.0	400 sks
5	Cement	Unfoamed Tail	14.3	5.0	50 sks
6	Spacer	Displacement	8.3	7.0	296.06 bbl

Foam Output Parameter Summary:

Fluid #	Fluid Name	Unfoamed Liquid Volume	Beginning Density lbm/gal	Ending Density lbm/gal	Beginning Rate scf/bbl	Ending Rate scf/bbl
Stage 1						
4	Foamed Lead	104.76bbl 1	11.0	11.0	265.5	630.5

Foam Design Specifications:

Foam Calculation Method: Constant Density
Backpressure: 75 psig
Bottom Hole Circulating Temp: 180 degF
Mud Outlet Temperature: 120 degF

Calculated Gas = 47830.3 scf
Additional Gas = 40000 scf
Total Gas = 87830.3 scf

Lessee's or Operator's Representative:

Jan Nelson
Red Wash Rep.
Questar Explor. & Prod. Co
11002 East 17500 South
Vernal, Utah 84078
(435) 781-4331

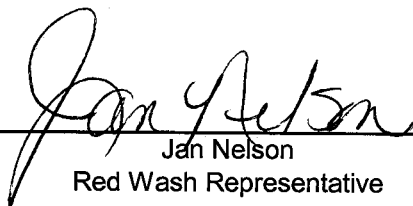
Certification:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Questar Explor. & Prod. Co. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Questar Explor. & Prod. Co. its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.



Jan Nelson
Red Wash Representative

17-Nov-06
Date

QUESTAR EXPLR. & PROD.

WOLF FLAT #3D-32-15-19

LOCATED IN UINTAH COUNTY, UTAH

SECTION 32, T15S, R19E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

10 13 06
MONTH DAY YEAR

PHOTO

TAKEN BY: B.H.

DRAWN BY: C.P.

REVISED: 00-00-00

QUESTAR EXPLR. & PROD.

FIGURE #1

LOCATION LAYOUT FOR

WOLF FLAT #3D-32-15-19
SECTION 32, T15S, R19E, S.L.B.&M.
460' FNL 1948' FWL

Proposed Access Road

C-4.9'
El. 140.2'

SCALE: 1" = 50'
DATE: 10-12-06
Drawn By: K.G.

NOTE:

Flare Pit is to be located
a min. of 100' from the
Well Head.

Approx.
Top of
Cut Slope

Existing Road

Reserve Pit Backfill
& Spoils Stockpile

FLARE PIT

C-9.8'
El. 145.1'

El. 148.2'
C-24.9'
(btm. pit)

Steepen Cut Slope, as Needed to Avoid Road

10' WIDE BENCH

RESERVE PITS
(12' Deep)

Total Pit Capacity
W/2' of Freeboard
= 12,500 Bbls. ±
Total Pit Volume
= 3,370 Cu. Yds.

El. 145.4'
C-22.1'
(btm. pit)

Reserve Pit Backfill
& Spoils Stockpile

C-5.3'
El. 140.6'

NOTES:

Elev. Ungraded Ground At Loc. Stake = 8142.7'
FINISHED GRADE ELEV. AT LOC. STAKE = 8135.3'

Approx.
Toe of
Fill Slope

PIPE TUBS

200'

CATWALK

PIPE RACKS

C-7.4'
El. 142.7'

52'

MUD TANKS

MUD TANKS

PUMP HOUSE

200'

TRASH

C-5.8'
El. 141.1'

PROPANE STORAGE

52'

F-1.9'
El. 133.4'

DOG HOUSE

LIGHT PLANT

BOILER

COMPRESSOR

BOOSTER

Sta. 2+00

TOILET

TRAILER

WATER TANK

Sta. 0+56

Round Corners
as Needed

F-29.0'
El. 106.3'

Sta. 0+00



UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

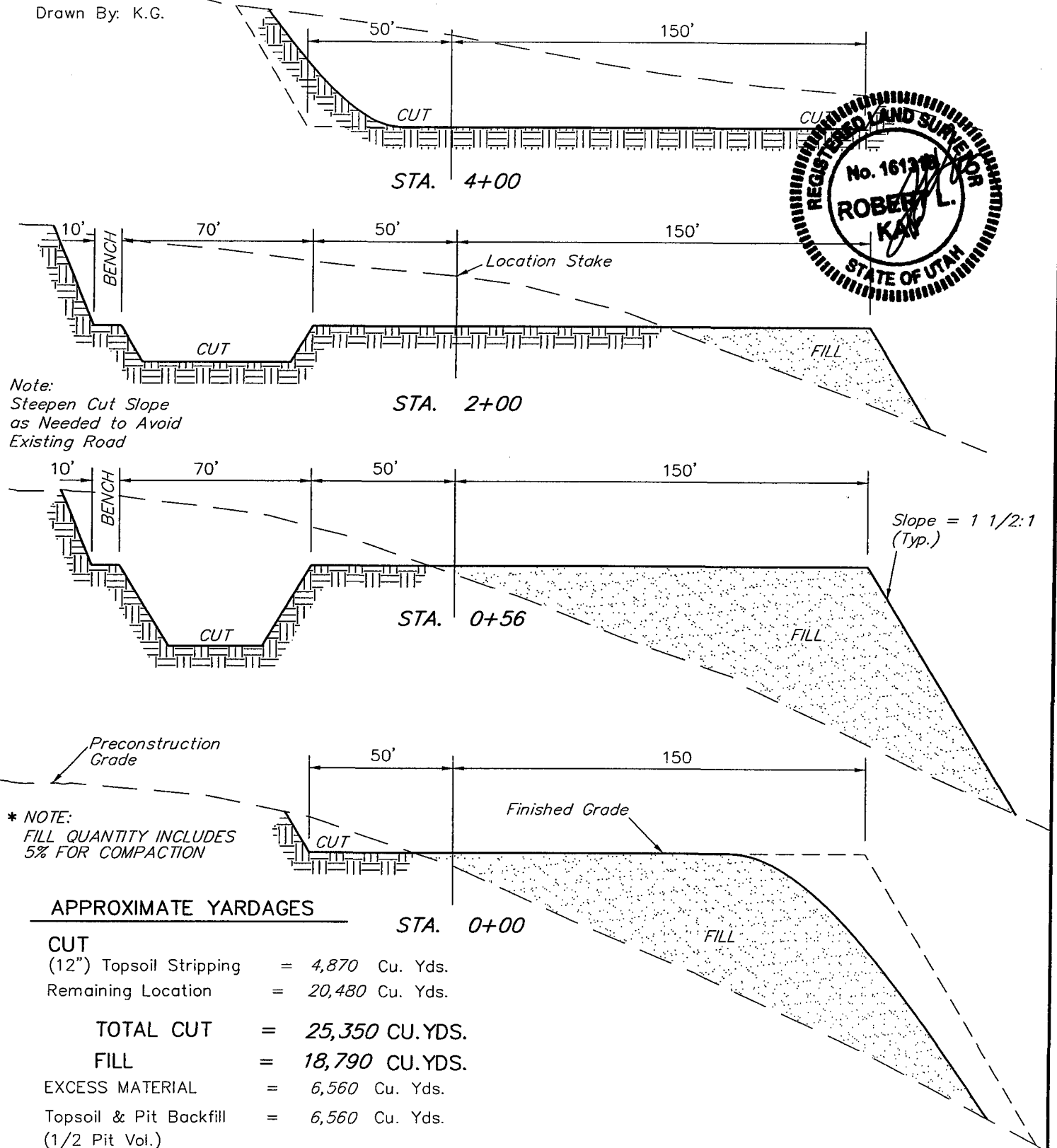
QUESTAR EXPLR. & PROD.

FIGURE #2

TYPICAL CROSS SECTIONS FOR WOLF FLAT #3D-32-15-19 SECTION 32, T15S, R19E, S.L.B.&M. 460' FNL 1948' FWL

X-Section
Scale
1" = 50'

DATE: 10-12-06
Drawn By: K.G.



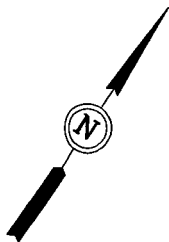
APPROXIMATE YARDAGES

CUT	
(12") Topsoil Stripping	= 4,870 Cu. Yds.
Remaining Location	= 20,480 Cu. Yds.
TOTAL CUT	= 25,350 CU.YDS.
FILL	= 18,790 CU.YDS.
EXCESS MATERIAL	= 6,560 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 6,560 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

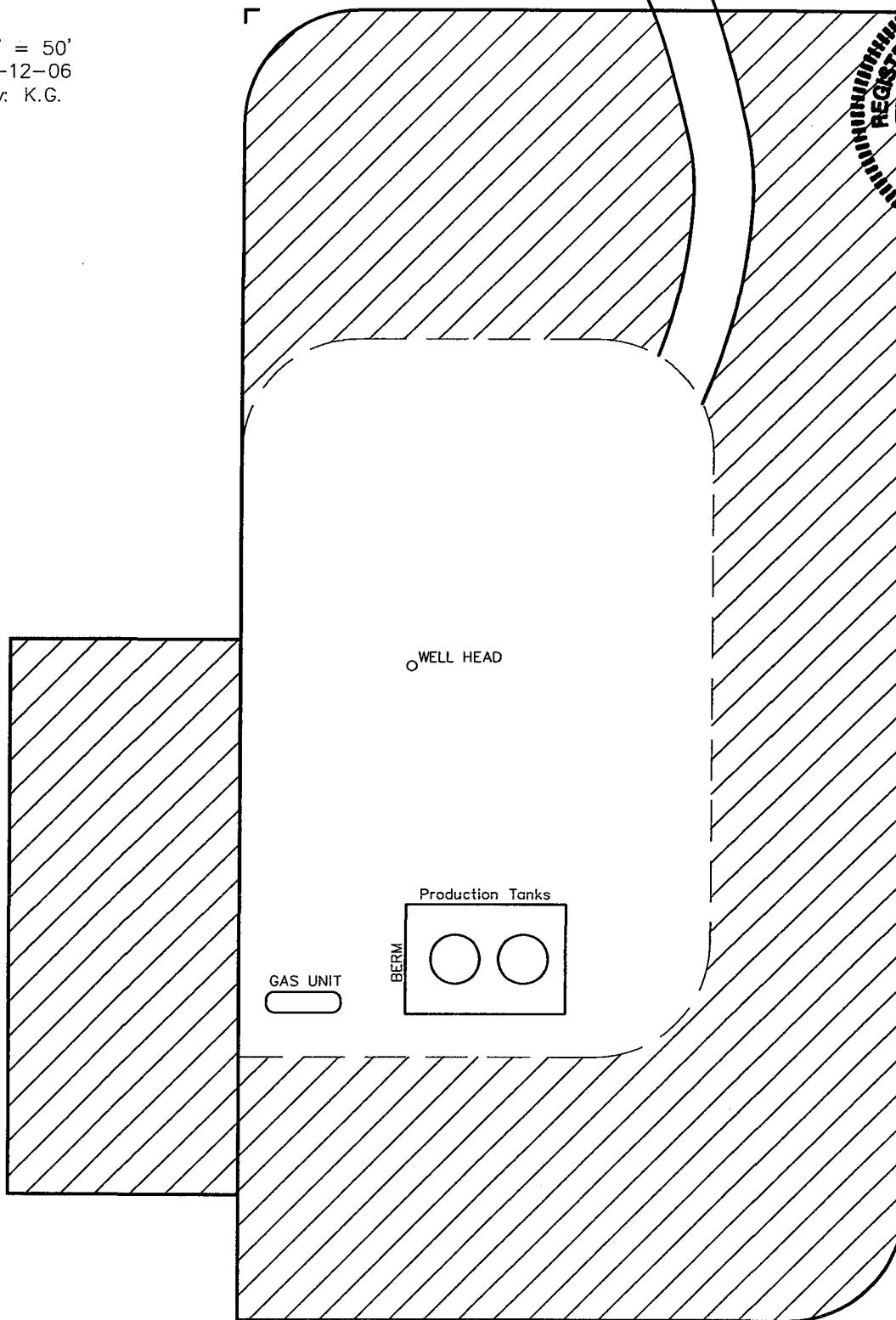
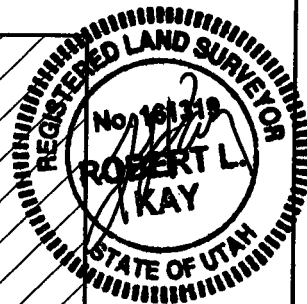
QUESTAR EXPLR. & PROD.

FIGURE #3

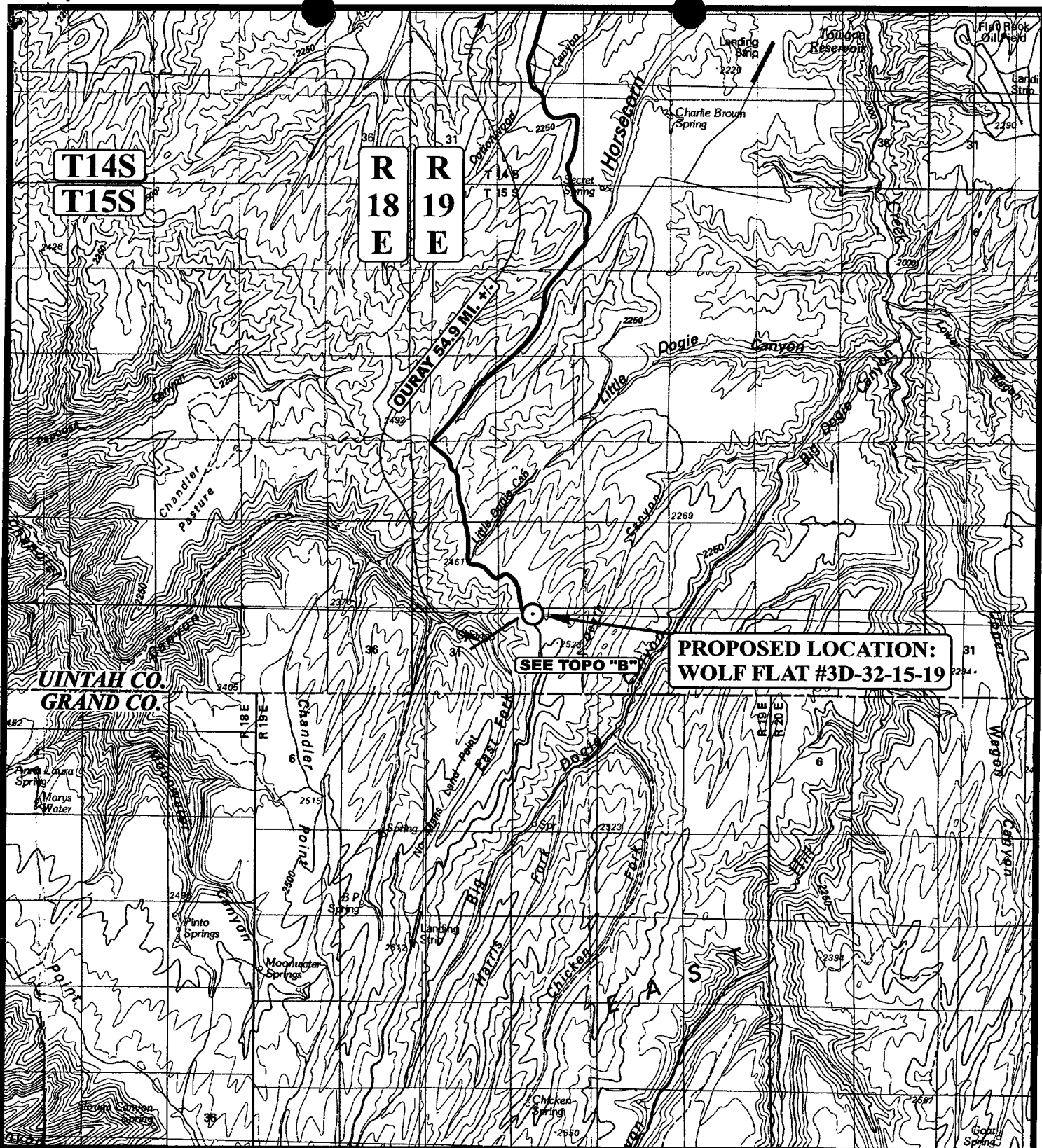
INTERIM RECLAMATION PLAN FOR
WOLF FLAT #3D-32-15-19
SECTION 32, T15S, R19E, S.L.B.&M.
460' FNL 1948' FWL



SCALE: 1" = 50'
DATE: 10-12-06
Drawn By: K.G.



INTERIM RECLAMATION



LEGEND:

PROPOSED LOCATION

N

QUESTAR EXPLR. & PROD.

WOLF FLAT #3D-32-15-19
SECTION 32, T15S, R19E, S.L.B.&M.
460' FNL 1948' FWL



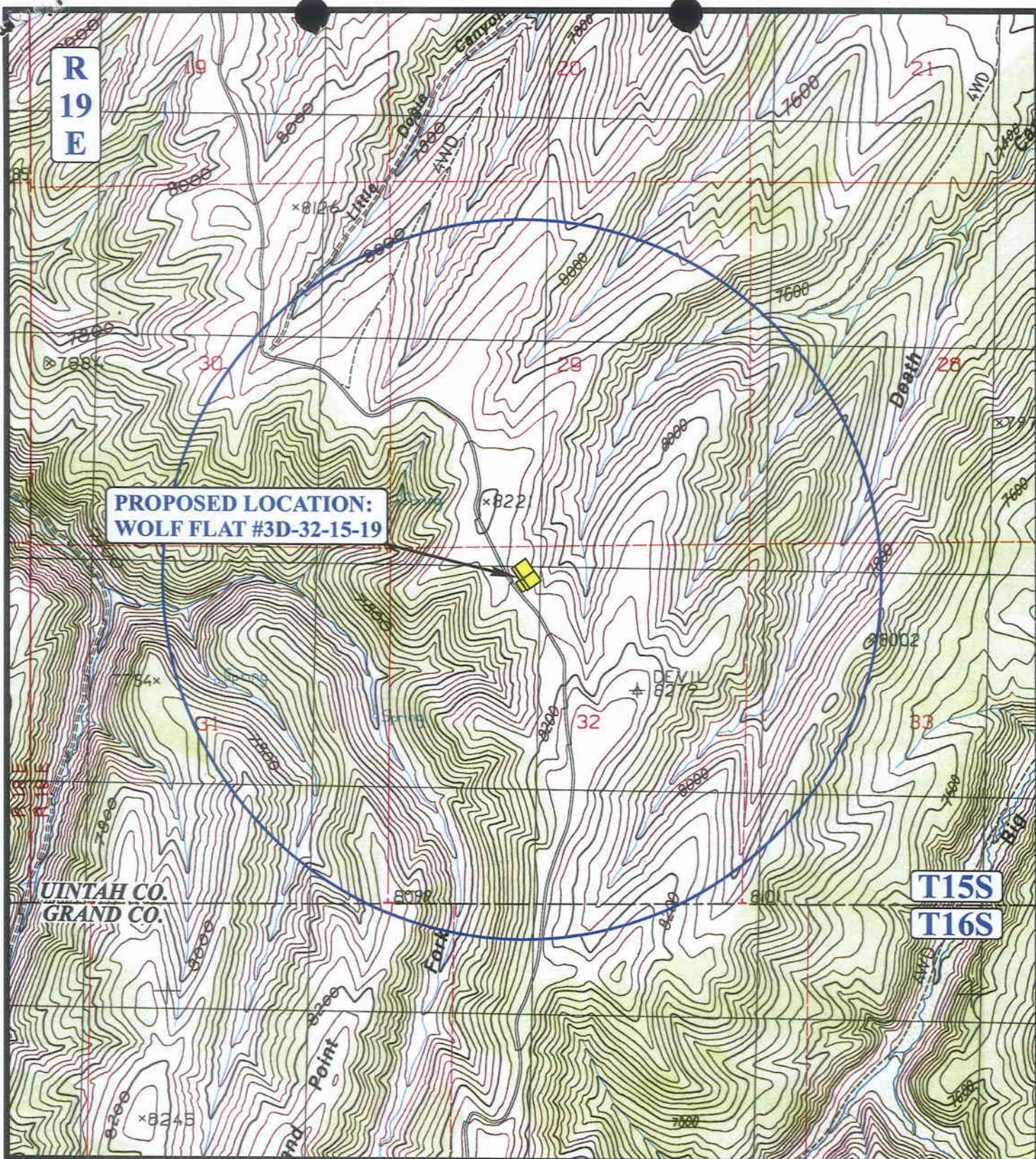
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

10 13 06
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00





**PROPOSED LOCATION:
WOLF FLAT #3D-32-15-19**

**UINTAH CO.
GRAND CO.**

**T15S
T16S**

LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



QUESTAR EXPLR. & PROD.

**WOLF FLAT #3D-32-15-19
SECTION 32, T15S, R19E, S.L.B.&M.
460' FNL 1948' FWL**



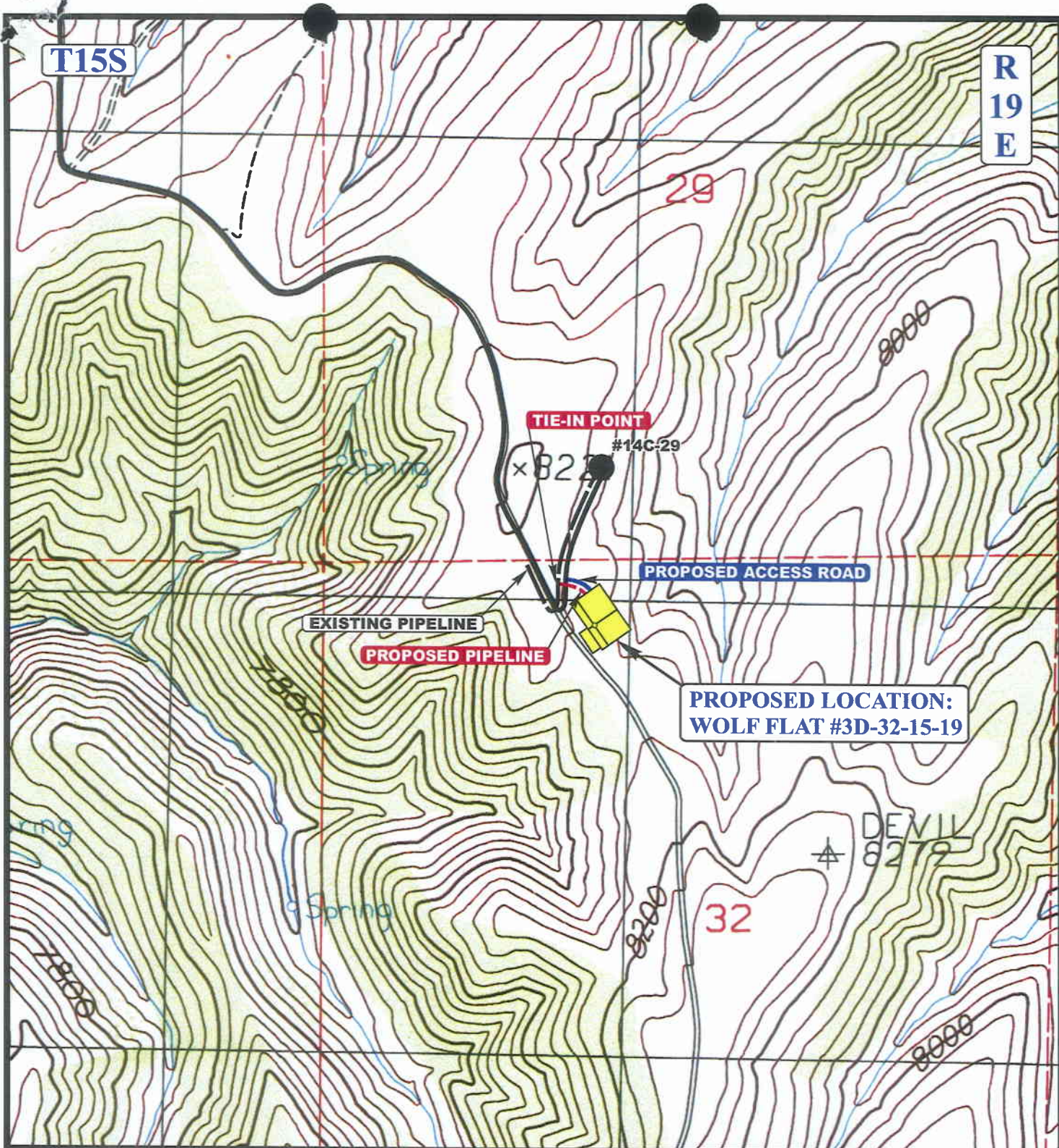
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

10 13 06
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 170' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE



QUESTAR EXPLR. & PROD.

WOLF FLAT #3D-32-15-19
SECTION 32, T15S, R19E, S.L.B.&M.
460' FNL 1948' FWL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

10 13 06
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00

D
TOPO

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/22/2006

API NO. ASSIGNED: 43-047-38877

WELL NAME: WF 3D-32-15-19

OPERATOR: QUESTAR EXPLORATION & (N5085)

PHONE NUMBER: 435-781-4331

CONTACT: JAN NELSON

PROPOSED LOCATION:

NENW 32 150S 190E

SURFACE: 0460 FNL 1948 FWL

BOTTOM: 0460 FNL 1948 FWL

COUNTY: Uintah

LATITUDE: 39.47496 LONGITUDE: -109.8150

UTM SURF EASTINGS: 601924 NORTHINGS: 4369947

FIELD NAME: WILDCAT (1)

INSPECT LOCATN BY: / /

Tech Review

Initials

Date

Engineering

DNCO

12/13/06

Geology

Surface

LEASE TYPE: 3 - State

LEASE NUMBER: ML-47974

PROPOSED FORMATION: MNCS

SURFACE OWNER: 2 - Indian

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 965003033)

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit

(No. 49-2183)

☒ RDCC Review (Y/N)

(Date: 12/14/2006)

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

☐ R649-2-3.

Unit: _____

☒ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

☐ R649-3-3. Exception

☐ Drilling Unit

Board Cause No: _____

Eff Date: _____

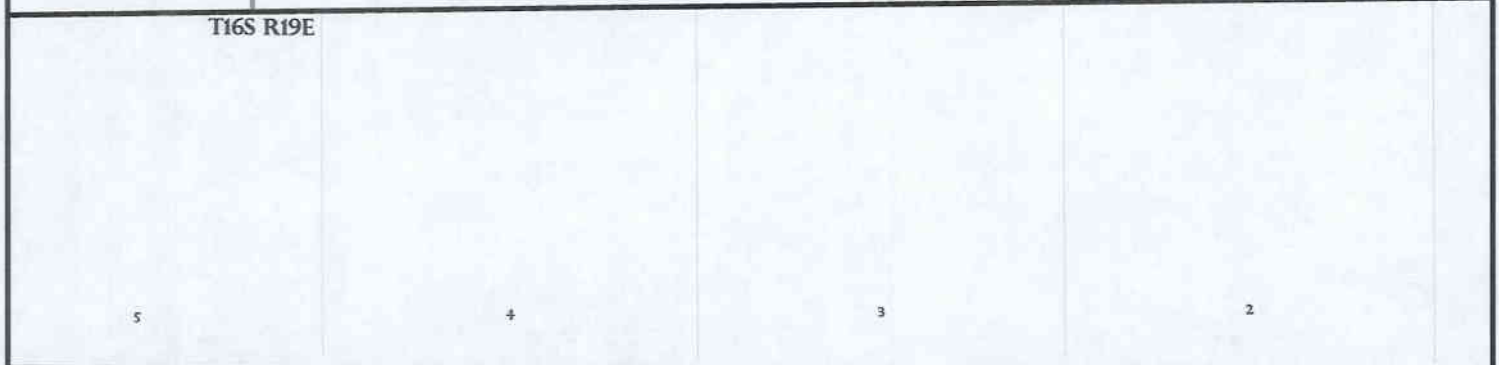
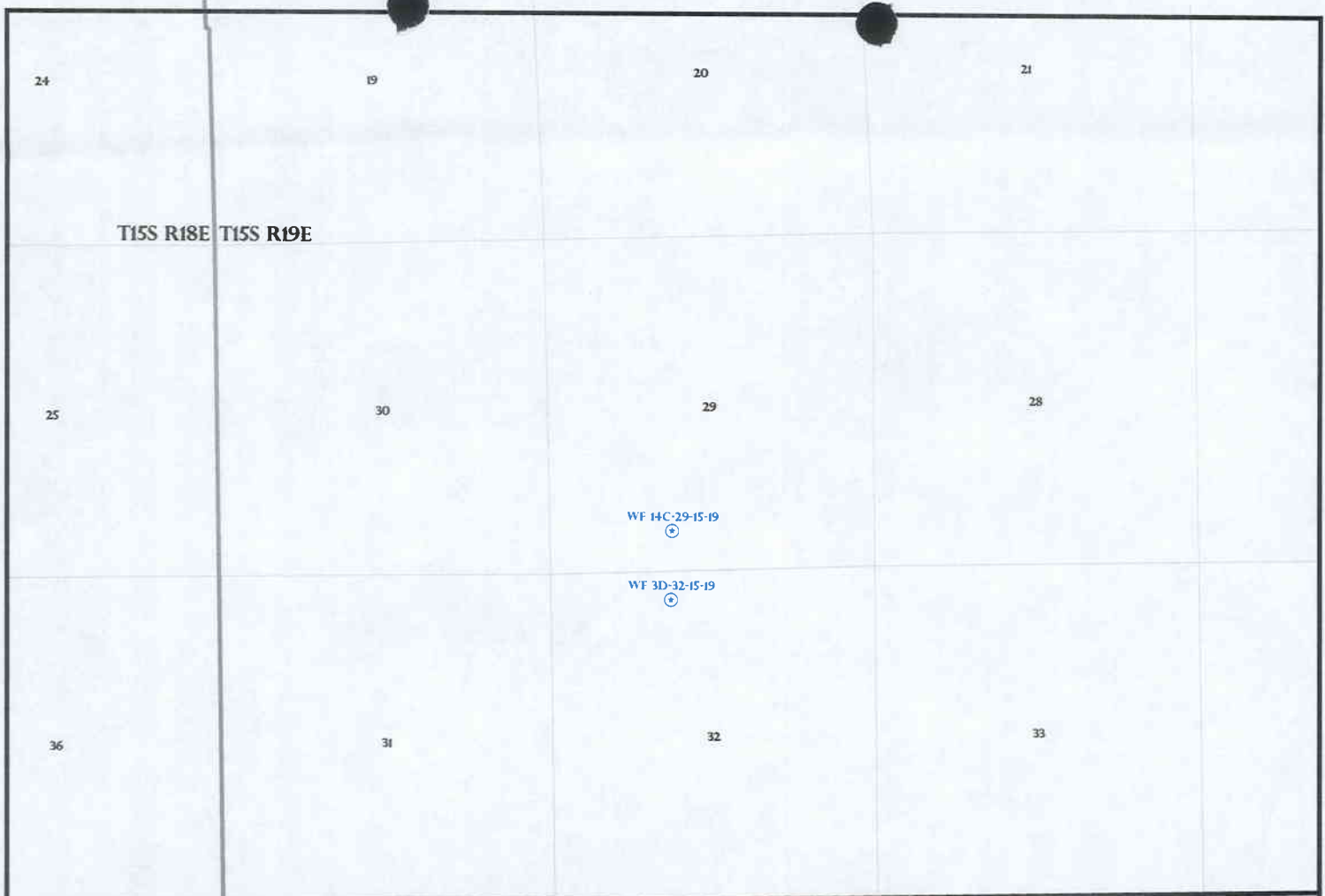
Siting: _____

☐ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

- 1- Federal Approval
- 2- Spacing Stip
- 3- Cement Stip #3 (4 1/2" production, 5000' m.d.)
- 4- STATEMENT OF BASIS



OPERATOR: QUESTAR EXPL & PROD (N5085)

SEC: 32 T.15S R. 19E

FIELD: WILDCAT (001)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING

Field Status	Unit Status
ABANDONED	EXPLORATORY
ACTIVE	GAS STORAGE
COMBINED	NF PP OIL
INACTIVE	NF SECONDARY
PROPOSED	PENDING
STORAGE	PI OIL
TERMINATED	PP GAS
	PP GEOTHERML
	PP OIL
	SECONDARY
	TERMINATED

Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

Utah Oil Gas and Mining

PREPARED BY: DIANA MASON
DATE: 29-NOVEMBER-2006

Application for Permit to Drill

Statement of Basis

12/14/2006

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM			
189	43-047-38877-00-00		GW	I	No			
Operator	QUESTAR EXPLORATION & PRODUCTION		Surface Owner-APD					
Well Name	WF 3D-32-15-19	Unit						
Field	WILDCAT	Type of Work						
Location	NENW 32 15S 19E S 0 F L 0 F L GPS Coord (UTM) 601924E 4369947N							

Geologic Statement of Basis

QEP proposes to set 500 feet of surface casing cemented to the surface. An intermediate string will be set at 5,550 feet. Cement for the intermediate string is expected to extend up to approximately 2,400 feet. Cement for the production string will be brought up to approximately 5,000 feet. The base of the moderately saline water is estimated at 6,600 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this location is the Green River Formation. The Green River Formation is made up of interbedded sandstones, shales, and limestones. The Green River Formation can be expected to contain useable aquifers which should be protected. The proposed casing and cement program should adequately protect usable ground water in the area.

Brad Hill

12/14/2006

APD Evaluator

Date / Time

Surface Statement of Basis

The surface rights at the proposed location are owned by the Ute Tribe. The operator is responsible for obtaining any needed permits and/or rights-of-way from the Ute Tribe.

Brad Hill

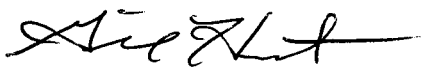
12/14/2006

Onsite Evaluator

Date / Time

Conditions of Approval / Application for Permit to Drill

STATE ACTIONS
Resource Development Coordinating Committee
Public Lands Policy Coordination Office
5110 State Office Building
SLC, UT 84114
Phone No. 537-9230

1. State Agency Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	2. Approximate date project will start: Upon Approval or December 13
3. Title of proposed action: Application for Permit to Drill	
4. Description of Project: Questar Exploration & Production Co. proposes to drill the WF 3D-32-15-19 well (wildcat) on a State lease ML-47974, Uintah County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.	
5. Location and detailed map of land affected (site location map required, electronic GIS map preferred) (include UTM coordinates where possible) (indicate county) 460' FNL 1948' FWL, NE/4 NW/4, Section 32, Township 15 South, Range 19 East, Uintah County, Utah	
6. Possible significant impacts likely to occur: Surface impacts include up to five acres of surface disturbance during the drilling and completion phase (estimated for five weeks duration). If oil and gas in commercial quantities is discovered, the location will be reclaimed back to a net disturbance of between one and two acres – not including road, pipeline, or utility infrastructure. If no oil or gas is discovered, the location will be completely reclaimed.	
7. Identify local government affected a. Has the government been contacted? No. b. When? c. What was the response? d. If no response, how is the local government(s) likely to be impacted?	
8. For acquisitions of land or interests in land by DWR or State Parks please identify state representative and state senator for the project area. Name and phone number of state representative, state senator near project site, if applicable: a. Has the representative and senator been contacted? N/A	
9. Areawide clearinghouse(s) receiving state action: (to be sent out by agency in block 1) Uintah Basin Association of Governments	
10. For further information, contact: Diana Whitney Phone: (801) 538-5312	11. Signature and title of authorized officer  Gil Hunt, Associate Director Date: November 29, 2006

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 3

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN		5. MINERAL LEASE NO: ML-47974	6. SURFACE: TRIBAL
B. TYPE OF WELL <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE		7. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE TRIBE	
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION, CO.		8. UNIT or CA AGREEMENT NAME: N/A	
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		9. WELL NAME and NUMBER: WF 3D-32-15-19	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 460' FNL 1948' FWL AT PROPOSED PRODUCING ZONE: SAME		10. FIELD AND POOL, OR WILDCAT: UNDESIGNATED	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 55 +/- MILES SOUTH OF OURAY, UTAH		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 32 15S 19E	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE(FEET) 460 +/-		12. COUNTY: UINTAH	
16. NUMBER OF ACRES IN LEASE: 1920		13. STATE: UTAH	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
19. PROPOSED DEPTH 11,950' MD		20. BOND DESCRIPTION: 965003033	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 8135.3' GR		22. APPROXIMATE DATE WORK WILL START: ASAP	
23. ESTIMATED DURATION: 30 DAYS			

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12 1/4	9 5/8 J-55 36	500'	SEE ATTACHED CEMENT CALCULATIONS
8 3/4	7" HCP-110 26	5550'	
6 1/8	4 1/2 P-110 13.5	TD	

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERATION GENERAL RULES:

- | | |
|--|---|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OW |

NAME (PLEASE PRINT) <u>Jan Nelson</u>	TITLE <u>Regulatory Affairs</u>
SIGNATURE <u><i>Jan Nelson</i></u>	DATE <u>11/17/06</u>

(This space for State use only)

API NUMBER ASSIGNED: <u>43-047-35877</u>	APPROVAL: _____
--	-----------------

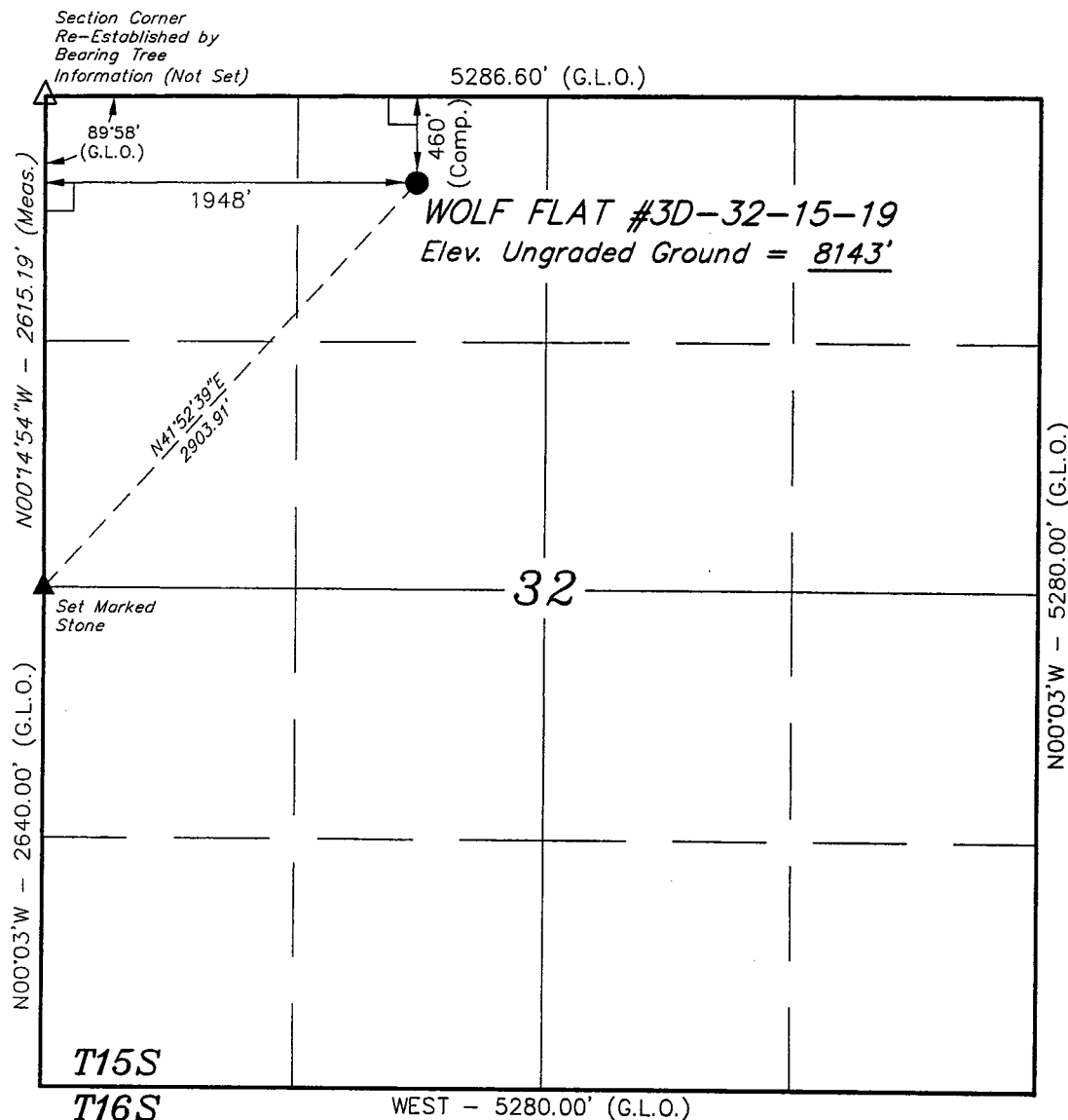
RECEIVED

NOV 22 2006

DIV. OF OIL, GAS & MINING

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T15S, R19E, S.L.B.&M.



LEGEND:

└─┐ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

△ = SECTION CORNERS RE-ESTABLISHED. (Not Set On Ground)

(AUTONOMOUS NAD 83)
LATITUDE = 39°28'29.83" (39.474953)
LONGITUDE = 109°48'57.00" (109.815833)
(AUTONOMOUS NAD 27)
LATITUDE = 39°28'29.70" (39.474917)
LONGITUDE = 109°48'59.50" (109.816528)

QUESTAR EXPLR. & PROD.

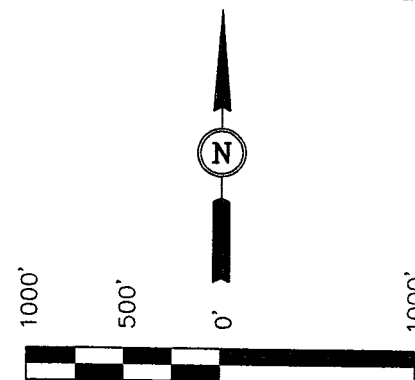
Well location, WOLF FLAT #3D-32-15-19,
located as shown in the NE 1/4 NW 1/4 of
Section 32, T15S, R19E, S.L.B.&M., Uintah
County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT A ROAD INTERSECTION IN THE NW 1/4
OF SECTION 19, T15S, R19E, S.L.B.&M. TAKEN FROM THE
WOLF FLAT, QUADRANGLE, UTAH, UTAH COUNTY, 7.5
MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL
SURVEY. SAID ELEVATION IS MARKED AS BEING 8054 FEET.

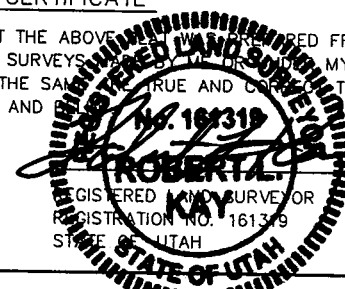
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



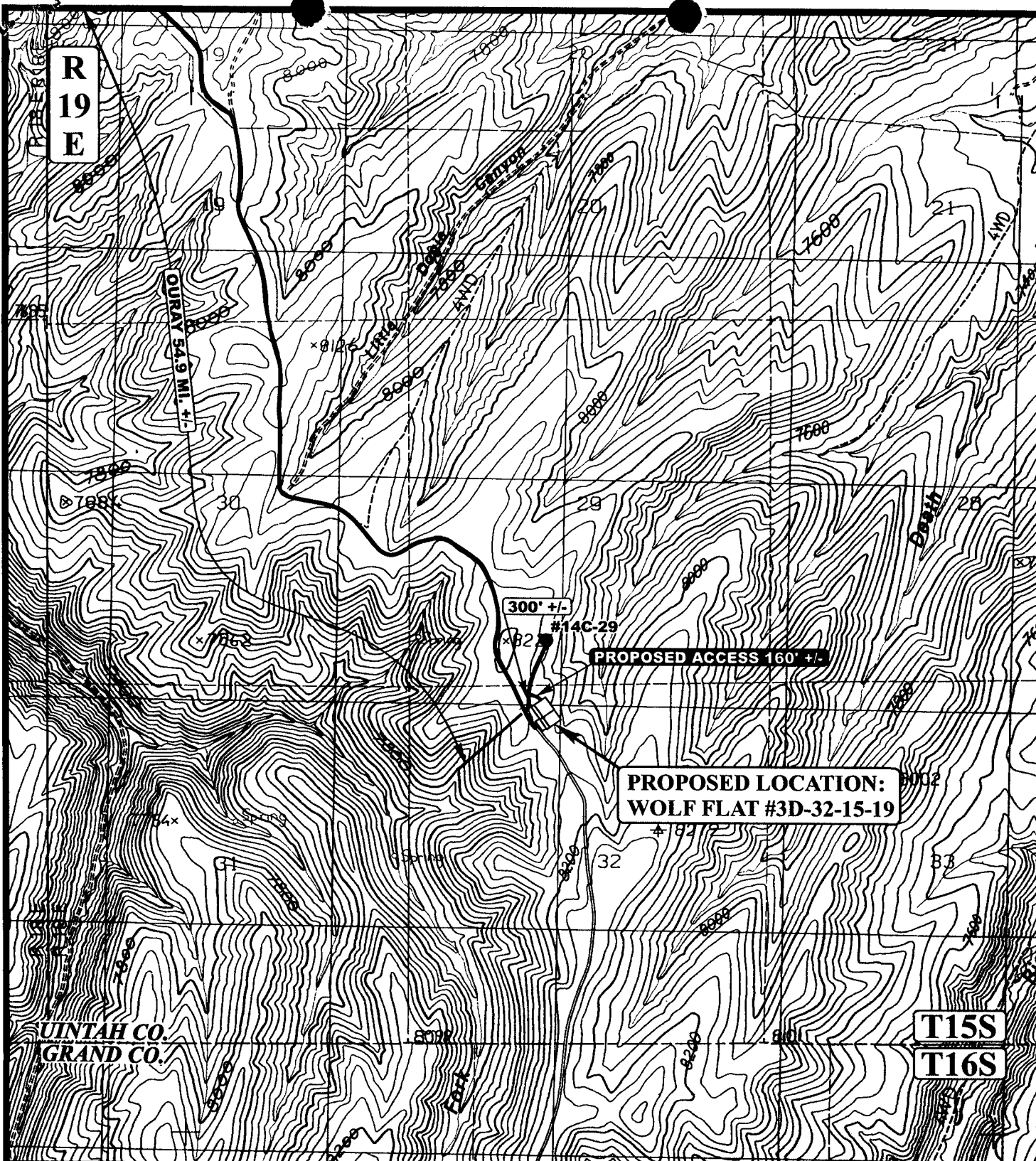
SCALE
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE SURVEY WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS AND WAS UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.



UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-11-06	DATE DRAWN: 10-12-06
PARTY B.H. F.Y. K.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE QUESTAR EXPLR. & PROD.	



LEGEND:

- EXISTING ROAD
----- PROPOSED ACCESS ROAD

N

QUESTAR EXPLR. & PROD.

WOLF FLAT #3D-32-15-19
SECTION 32, T15S, R19E, S.L.B.&M.
460' FNL 1948' FWL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

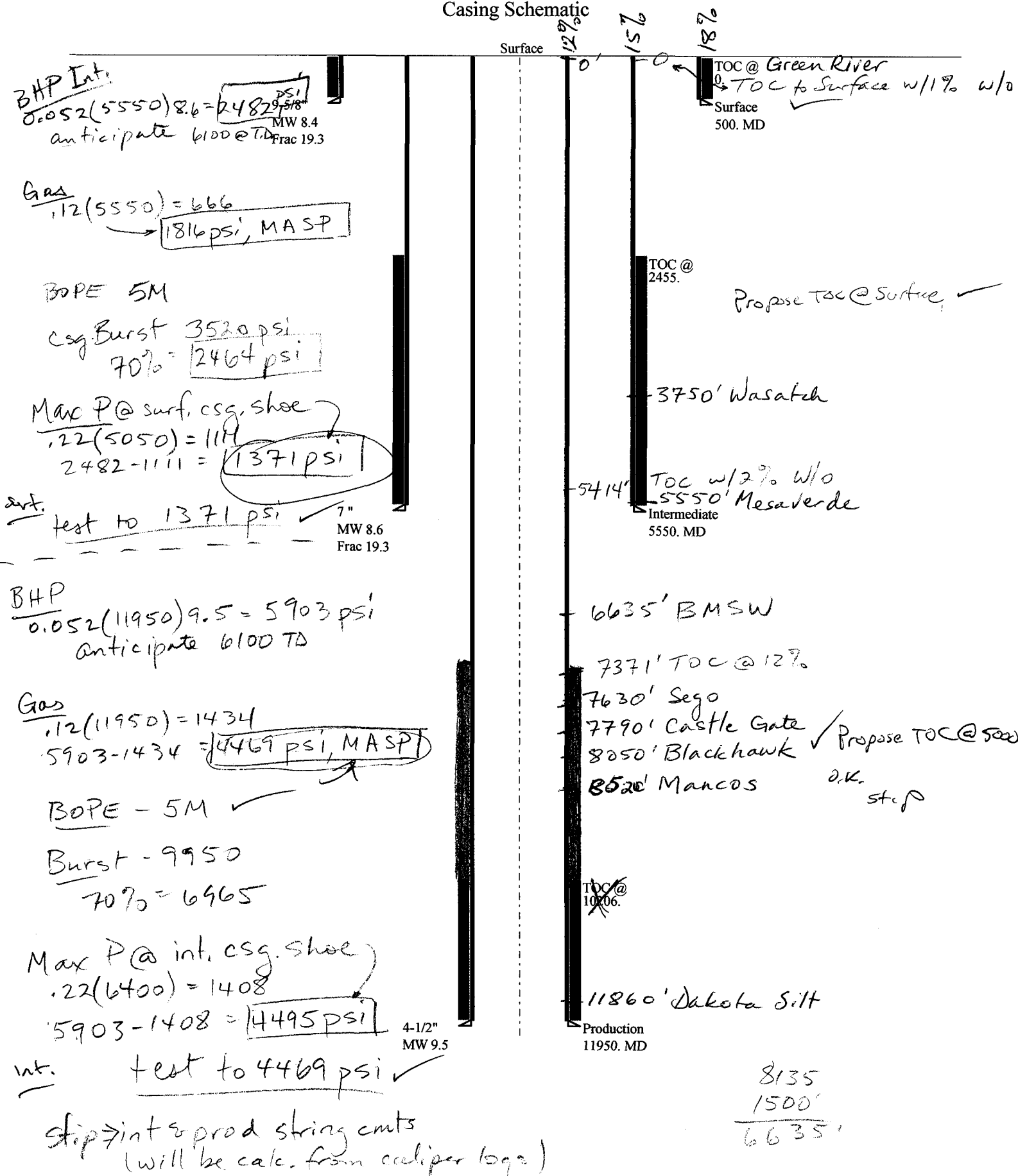
TOPOGRAPHIC
MAP

10 **13** **06**
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00

B
TOPO

Casing Schematic



✓ Adequate OKD 12/13/06

8135
1500'
6635'

Well name:	2006-12 QEP WR 3D-32-15-19	
Operator:	Questar Exploration & Production, CO.	
String type:	Surface	Project ID: 43-047-38877
Location:	Uintah County	

Design parameters:
Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 82 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 499 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 440 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 500 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 438 ft

Non-directional string.
Re subsequent strings:

Next setting depth: 5,550 ft
Next mud weight: 8.600 ppg
Next setting BHP: 2,479 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 500 ft
Injection pressure: 500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	500	9.625	36.00	J-55	ST&C	500	500	8.796	217

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	218	2020	9.260	500	3520	7.04	16	394	25.00 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Minerals

Phone: 801-538-5357
FAX: 801-359-3940

Date: December 5, 2006
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	2006-12 QEP WR 3D-32-15-19	
Operator:	Questar Exploration & Production, CO.	
String type:	Intermediate	Project ID: 43-047-38877
Location:	Uintah County	

Design parameters:
Collapse

Mud weight: 8.600 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 153 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 500 ft

Cement top: 2,455 ft

Burst

Max anticipated surface pressure: 3,268 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,489 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 4,830 ft

Non-directional string.
Re subsequent strings:

Next setting depth: 11,950 ft
Next mud weight: 9.500 ppg
Next setting BHP: 5,897 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 5,501 ft
Injection pressure: 5,501 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	5550	7	26.00	HCP-110	LT&C	5550	5550	6.151	1192.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2479	7800	3.146	4489	9950	2.22	126	693	5.52 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Minerals

Phone: 801-538-5357
FAX: 801-359-3940

Date: December 5, 2006
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5550 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

2006-12 QEP WR 3D-32-15-19

Operator:

Questar Exploration & Production, CO.

String type:

Production

Project ID:

43-047-38877

Location:

Uintah County

Design parameters:**Collapse**

Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 242 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: 10,206 ft

Burst

Max anticipated surface pressure: 3,268 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,897 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.

Neutral point: 10,274 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	11950	4.5	13.50	P-110	LT&C	11950	11950	3.795	1001.5
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5897	10680	1.811	5897	12410	2.10	139	338	2.44 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Minerals

Phone: 801-538-5357
FAX: 801-359-3940

Date: December 5, 2006
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 11950 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

From: Robert Clark
To: Mason, Diana
Date: 12/11/2006 9:05 AM
Subject: RDCC short turn around response

CC: Anderson, Tad; Mcneill, Dave; Wright, Carolyn

The following comments are in response to RDCC short turn around items **RDCC #7349 and RDCC #7353**.

RDCC #7349, Comments begin: The Bill Barrett Corporation proposal to drill the 1-3 DLB 1-15-56 wildcat well, in Duchesne County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm . **Comments end.**

RDCC #7353, Comments begin: The Questar Exploration & Production Co. proposal to drill the WF 3D-32-15-19 wildcat well, in Uintah County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at www.rules.utah.gov/publicat/code/r307/r307.htm .

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at www.rules.utah.gov/publicat/code/r307/r307.htm . **Comments end.**

Robert Clark
Utah Division of Air Quality
801-536-4435



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

December 14, 2006

Questar Exploration & Production, Co.
11002 E 17500 S
Vernal, UT 84078

Re: WF 3D-32-15-19 Well, 460' FNL, 1948' FWL, NE NW, Sec. 32, T. 15 South,
R. 19 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38877.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor (via e-mail)
Bureau of Land Management, Vernal District Office

Operator: Questar Exploration & Production, Co.
Well Name & Number WF 3D-32-15-19
API Number: 43-047-38877
Lease: ML-47974

Location: NE NW Sec. 32 T. 15 South R. 19 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

6. The lands subject to this application and the associated mineral rights have been transferred to the Ute Indian Tribe as fee lands, and not as part of the reservation lands pursuant to Public Law 106-398, the Floyd D Spence National Defense Authorization Act for Fiscal Year 2001. The Division on behalf of the State of Utah has been directed by Utah Code §§40-6-1 et seq. to exercise jurisdiction over all oil and gas exploration and development on all lands within the State of Utah, in order to promote the greatest economic recovery of oil and gas, and to protect the interests of the general public in the natural resources of the state. **The operator is responsible for obtaining the proper permits from both the State of Utah, Division of Oil Gas and Mining, and from the Ute Indian Tribe for all oil and gas related activities that may be permitted and under the regulations of the State of Utah or the Ute Indian Tribe.**
7. Cement volume for the 4 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 5000' MD as indicated in the submitted drilling plan.
8. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.
9. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47974
2. NAME OF OPERATOR: Questar Exploration & Production Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE TRIBE
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 460' FNL 1948' FWL		8. WELL NAME and NUMBER: WF 3D-32-15-19
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 32 15S 19E		9. API NUMBER: 4304738877
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: UNDESIGNATED
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD EXTENSION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Questar Exploration & Production Co. hereby requests a 1 year extension on the WF 3D-32-15-19.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 12-17-07
By: [Signature]

COPY SENT TO OPERATOR
Date: 12-17-2007
Initials: [Signature]

NAME (PLEASE PRINT) <u>Laura Bills</u>	TITLE <u>Regulatory Affairs</u>
SIGNATURE <u>[Signature]</u>	DATE <u>12/7/2007</u>

(This space for State use only)

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DEC 10 2007

CONFIDENTIAL

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-38877
Well Name: WF 3D-32-15-19
Location: 460' FNL 1948' FWL, NENW, SEC. 32, T15S, R19E
Company Permit Issued to: Questar Exploration & Production Co.
Date Original Permit Issued: 12/14/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

James Bills
Signature

12/7/2007

Date

Title: REGULATORY AFFAIRS

Representing: Questar Exploration & Production Co.

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DEC 10 2007

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47974
2. NAME OF OPERATOR: QUESTAR EXPLORATION AND PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE TRIBE
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: N/A
PHONE NUMBER: (435) 781-4331		8. WELL NAME and NUMBER: WF 3D-32-15-19
4. LOCATION OF WELL FOOTAGES AT SURFACE: 460' FNL 1948' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENW 32 15S 19E		9. API NUMBER: 4304738877
		10. FIELD AND POOL, OR WILDCAT: UNDESIGNATED
		COUNTY: UINTAH
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
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	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD EXTENSION</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Questar Exploration & Production Company hereby requests a 1 year extension on the WF 3D-32-15-19.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 12-22-08
By: [Signature]

NAME (PLEASE PRINT) <u>Laura Bills</u>	TITLE <u>Associate Regulatory Affairs Analyst</u>
SIGNATURE <u>[Signature]</u>	DATE <u>12/10/2008</u>

(This space for State use only)

COPY SENT TO OPERATOR

Date: 12-30-2008

Initials: KS

RECEIVED

DEC 15 2008

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**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-38877
Well Name: WF 3D-32-15-19
Location: 460' FNL 1948' FWL, NENW, SEC. 32, T15S, R19E
Company Permit Issued to: Questar Exploration & Production Company
Date Original Permit Issued: 12/14/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

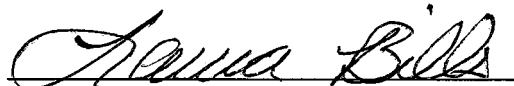
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

12/10/2008

Date

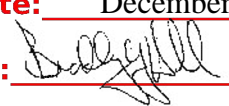
Title: Associate Regulatory Affairs Analyst

Representing: Questar Exploration & Production Company

RECEIVED

DEC 15 2008

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47974			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, UT, 84078		8. WELL NAME and NUMBER: WF 3D-32-15-19			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0460 FNL 1948 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 32 Township: 15.0S Range: 19.0E Meridian: S		9. API NUMBER: 43047388770000			
PHONE NUMBER: 435 781-4362 Ext		9. FIELD and POOL or WILDCAT: WILDCAT			
COUNTY: UTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/22/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Quesstar Exploration and Production Company hereby requests a one year extension for the APD on the above captioned well.					
Approved by the Utah Division of Oil, Gas and Mining Date: December 21, 2009 By: 					
NAME (PLEASE PRINT) Jan Nelson	PHONE NUMBER 435 781-4331	TITLE Permit Agent			
SIGNATURE N/A	DATE 12/17/2009				



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047388770000

API: 43047388770000

Well Name: WF 3D-32-15-19

Location: 0460 FNL 1948 FWL QTR NENW SEC 32 TWNP 150S RNG 190E MER S

Company Permit Issued to: QUESTAR EXPLORATION & PRODUCTION CO

Date Original Permit Issued: 12/14/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Jan Nelson

Date: 12/17/2009

Title: Permit Agent **Representing:** QUESTAR EXPLORATION & PRODUCTION CO

Date: December 21, 2009

By:

RECEIVED December 17, 2009

OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING

CDW

Change of Operator (Well Sold)

X - Operator Name Change

The operator of the well(s) listed below has changed, effective:

6/14/2010**FROM: (Old Operator):**N5085-Questar Exploration and Production Company
1050 17th St, Suite 500
Denver, CO 80265

Phone: 1 (303) 308-3048

TO: (New Operator):N3700-QEP Energy Company
1050 17th St, Suite 500
Denver, CO 80265

Phone: 1 (303) 308-3048

CA No.**Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- Is the new operator registered in the State of Utah: Business Number: 764611-0143
- (R649-9-2) Waste Management Plan has been received on: Requested
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1 TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached
2 NAME OF OPERATOR: Questar Exploration and Production Company <i>N5085</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached
3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 City: Denver STATE: CO ZIP: 80265		7. UNIT or CA AGREEMENT NAME: See attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached		8. WELL NAME and NUMBER: See attached
9. API NUMBER: Attached		10. FIELD AND POOL, OR WILDCAT: See attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		COUNTY: Attached STATE: UTAH

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/14/2010</u>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>Operator Name Change</u>
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024) *N3700*

Utah State Bond Number: ~~965003033~~

Fee Land Bond Number: ~~965003033~~ *965010695*

BIA Bond Number: ~~799446~~ *965010693*

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) <u>Morgan Anderson</u>	TITLE <u>Regulatory Affairs Analyst</u>
SIGNATURE <i>Morgan Anderson</i>	DATE <u>6/23/2010</u>

(This space for State use only)

RECEIVED

JUN 28 2010

DIV. OF OIL, GAS & MINING

APPROVED *6/30/2009*

Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)
effective June 14, 2010

well_name	sec	tpw	rng	api	entity	mineral lease	type	stat	C
Wr 16G-32-10-17	32	100S	170E	4301350370		State	OW	NEW	C
STATE 1	36	070S	240E	4304715128	5878	State	GW	P	
KAYE STATE 1-16	16	100S	230E	4304730609	5395	State	GW	P	
TOLL STATION ST 8-36-8-21	36	080S	210E	4304732724	12361	State	GW	S	
GB 8A-36-8-21	36	080S	210E	4304733037	12377	State	GW	P	
GB 6-36-8-21	36	080S	210E	4304733038	12378	State	GW	P	
GB 2-36-8-21	36	080S	210E	4304733252	12527	State	GW	P	
GH 1W-32-8-21	32	080S	210E	4304733570	12797	State	GW	P	
GH 3W-32-8-21	32	080S	210E	4304733571	12796	State	GW	P	
GH 5W-32-8-21	32	080S	210E	4304733572	12828	State	GW	P	
GH 7W-32-8-21	32	080S	210E	4304733573	12872	State	GW	P	
GH 2W-32-8-21	32	080S	210E	4304733744	13029	State	GW	P	
GH 4W-32-8-21	32	080S	210E	4304733745	13035	State	GW	P	
GH 8W-32-8-21	32	080S	210E	4304733746	13030	State	GW	P	
OU GB 3W-16-8-22	16	080S	220E	4304733751	13577	State	GW	P	
OU GB 5W-16-8-22	16	080S	220E	4304733752	13570	State	GW	P	
GH 6W-32-8-21	32	080S	210E	4304733753	13036	State	GW	P	
OU GB 11W-16-8-22	16	080S	220E	4304733754	13582	State	GW	P	
GH 5G-32-8-21	32	080S	210E	4304733866	13037	State	OW	P	
GB 1W-36-8-21	36	080S	210E	4304733944	13439	State	GW	P	
WV 2W-2-8-21	02	080S	210E	4304734034	13678	State	GW	P	
GB 6W-25-8-21	25	080S	210E	4304734121	13440	Fee	GW	P	
GB 7W-25-8-21	25	080S	210E	4304734122	13436	Fee	GW	P	
WV 9W-16-7-21	16	070S	210E	4304734324		State	GW	LA	
OU GB 11W-30-8-22	30	080S	220E	4304734392	13433	Fee	GW	P	
OU GB 4W-16-8-22	16	080S	220E	4304734598	13579	State	GW	P	
OU GB 10W-16-8-22	16	080S	220E	4304734616		State	GW	LA	
OU GB 12W-16-8-22	16	080S	220E	4304734617	13697	State	GW	P	
OU GB 13W-16-8-22	16	080S	220E	4304734618	13611	State	GW	P	
GB 14MU-16-8-22	16	080S	220E	4304734619	14196	State	GW	P	
OU GB 15W-16-8-22	16	080S	220E	4304734622	13595	State	GW	P	
OU GB 16W-16-8-22	16	080S	220E	4304734655	13815	State	GW	P	
OU GB 2W-16-8-22	16	080S	220E	4304734657	13721	State	GW	P	
OU GB 6W-16-8-22	16	080S	220E	4304734658	13592	State	GW	P	
OU GB 8W-16-8-22	16	080S	220E	4304734660	13769	State	GW	TA	
OU GB 9W-16-8-22	16	080S	220E	4304734692		State	GW	LA	
OU GB 15G-16-8-22	16	080S	220E	4304734829	13777	State	OW	S	
GB 7MU-36-8-21	36	080S	210E	4304734893	14591	State	GW	P	
GB 3W-36-8-21	36	080S	210E	4304734894	13791	State	GW	P	
NC 8M-32-8-22	32	080S	220E	4304734897		State	GW	LA	
NC 3M-32-8-22	32	080S	220E	4304734899		State	GW	LA	
GB 5W-36-8-21	36	080S	210E	4304734925	13808	State	GW	P	
GB 4MU-36-8-21	36	080S	210E	4304734926	14589	State	GW	P	
NC 11M-32-8-22	32	080S	220E	4304735040		State	GW	LA	
GB 5SG-36-8-21	36	080S	210E	4304735155	14015	State	GW	P	
SC 13ML-16-10-23	16	100S	230E	4304735281	14036	State	GW	P	
SC 3ML-16-10-23	16	100S	230E	4304735282	14014	State	GW	P	
SC 11ML-16-10-23	16	100S	230E	4304735311	14035	State	GW	P	
WH 13G-2-7-24	02	070S	240E	4304735484	14176	State	D	PA	
FR 9P-36-14-19	31	140S	200E	4304735880	14310	State	GW	P	
CB 13G-36-6-20	36	060S	200E	4304735969		State	OW	LA	

Bonds: BLM = ESB000024

BIA = 956010693

State = 965010695

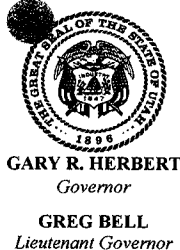
Questar Exploration Production Company (N5085) to QEP Energy Company (N3700)
effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral lease	type	stat	C
WH 2G-2-7-24	02	070S	240E	4304736259		State	GW	LA	
WH 4G-2-7-24	02	070S	240E	4304736261		State	GW	LA	
FR 1P-36-14-19	31	140S	200E	4304736300	14859	State	GW	P	
WK 3ML-2-9-24	02	090S	240E	4304736723		State	GW	LA	
WK 7ML-2-9-24	02	090S	240E	4304736724		State	GW	LA	
SC 5ML-16-10-23	16	100S	230E	4304736877	15125	State	GW	P	
SC 12ML-16-10-23	16	100S	230E	4304736878	15053	State	GW	P	
SC 14ML-16-10-23	16	100S	230E	4304736908	15070	State	GW	P	
SC 4ML-16-10-23	16	100S	230E	4304736912	15208	State	GW	P	
FR 3P-36-14-19	36	140S	190E	4304737376	15736	State	GW	P	
BZ 12ML-16-8-24	16	080S	240E	4304737670		State	GW	LA	
BZ 10D-16-8-24	16	080S	240E	4304737671	15979	State	GW	S	
BZ 14ML-16-8-24	16	080S	240E	4304737672		State	GW	LA	
BBE 9W-16-7-21	16	070S	210E	4304737745		State	GW	LA	
GB 10ML-16-8-22	16	080S	220E	4304737943		State	GW	LA	
GB 9ML-16-8-22	16	080S	220E	4304737944	15851	State	GW	P	
HR 2MU-2-12-23	02	120S	230E	4304738052		State	GW	LA	
HR 3MU-2-12-23	02	120S	230E	4304738053		State	GW	LA	
HR 6MU-2-12-23	02	120S	230E	4304738054		State	GW	LA	
HR 10MU-2-12-23	02	120S	230E	4304738055	15737	State	GW	S	
HR 12MU-2-12-23	02	120S	230E	4304738056		State	GW	LA	
HR 14MU-2-12-23	02	120S	230E	4304738057		State	GW	LA	
HR 16MU-2-12-23	02	120S	230E	4304738058		State	GW	LA	
FR 11P-36-14-19	36	140S	190E	4304738349	15899	State	GW	P	
GB 4SG-36-8-21	36	080S	210E	4304738764	16142	State	GW	P	
GB 7SG-36-8-21	36	080S	210E	4304738765	16144	State	GW	P	
WF 3D-32-15-19	32	150S	190E	4304738877		State	GW	APD	C
SCS 5C-32-14-19	32	140S	190E	4304738963	16759	State	GW	P	
FR 7P-36-14-19	31	140S	200E	4304738992	15955	State	GW	P	
SCS 10C-16-15-19	16	150S	190E	4304739683	16633	State	GW	P	
FR 6P-16-14-19	16	140S	190E	4304740350		State	GW	APD	C

Bonds: BLM = ESB000024

BIA = 956010693

State = 965010695



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

December 28, 2010

Questar Exploration & Production Co.
11002 East 17500 South
Vernal, UT 84078

Re: APD Rescinded – WF 3D-32-15-19, Sec. 32, T.15S, R.19E,
Uintah County, Utah API No. 43-047-38877

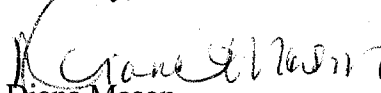
Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on December 14, 2006. On December 17, 2007, December 22, 2008 and December 21, 2009 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective December 28, 2010.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
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